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Sediment Data

Ontario

Données sur les sédiments

1985

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PREFACE

This publication was prepared by personnel of the Sediment Survey Section, Water Survey of Canada Division, under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Guelph, Ontario.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

Le groupe d'étude des sédiments de la Division des relevés hydrologiques du Canada, sous l'autorité du directeur des Ressources en eau du ministère de l'Environnement, à Ottawa, a préparé la présente publication.

Le chef régional de la Direction des ressources en eau, à Guelph (Ontario), a supervisé la collecte et la compilation des données de base.

Nous remercions vivement les organismes provinciaux, ou autres, pour leur collaboration.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1985 calendar year the annual suspended sediment data and a historical data summary for the sediment survey investigations conducted in Ontario by the Water Survey of Canada.

Data on the character and quantity of fluvial sediments provided by sediment survey investigations are intended for use in studies of water quality, environmental impacts, river processes and behaviour, and engineering design.

General introductory information on the sediment survey is included in this publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

Details on individual stations and related records, as well as recent data that have not yet been published, may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
Federal Building,
75 Farquhar Street,
Guelph, Ontario.
N1H 3N4

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7.

INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les données annuelles sur les sédiments en suspension pour 1985 et le sommaire des données chronologiques sur les sédiments, à la suite des études effectuées dans les cours d'eau de l'Ontario par la Division des relevés hydrologiques du Canada.

Les données recueillies sur la nature et l'importance de la charge solide dans les cours d'eau doivent servir aux études portant sur la qualité des eaux, les incidences environnementales, les processus fluviaux, le comportement des cours d'eau et la conception de projets.

La presente publication contient des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications régulières présentant des données sur les eaux de surface.

On peut obtenir des renseignements supplémentaires sur les stations et les relevés, ainsi que des données récentes non encore publiées, en s'adressant au:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice fédéral
75, rue Farquhar
Guelph (Ontario)
N1H 3N4

ou au directeur des Ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7.

SCOPE OF PUBLICATION

Descriptive information about sediment stations is given. This refers to the Location, Latitude and Longitude, Drainage Area and whether the flow is Natural Flow or Regulated Flow (the year that regulation began is given, if known), Type of Gauge and the Total Suspended Sediment Load in Tonnes for the Period of Record is also included. International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions at the sediment station that could affect the data results are explained under "Remarks".

This publication contains data on streamflow, instantaneous suspended sediment concentration; daily mean suspended sediment concentration; daily suspended sediment loads; dissolved solids concentration; load summary; particle-size distribution of suspended sediment in percent sand, silt and clay; bed load and bed material; water temperature when samples were collected; type of sampler and the single sampling vertical location.

A historical sediment data summary includes such information as Sampled Concentration Maximum and Minimum; Suspended Sediment Load Maximum Daily and the Total for Period. The Period of Record and the Type of Operation for each year of data are also given. A Summary for the Months of record gives the Period of Record Mean, the Mean for Period of Record and the Standard Error of Mean as a percent.

HISTORY AND OBJECTIVES OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of federal and provincial agencies for assessment of particular projects. Although the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

(1) Collection and provision of data related to sediment transport in Canadian rivers for applications in water resource engineering, water quality and environmental studies.

(2) Provision of information and advice related to sediment transport.

(3) Assessment, improvement and standardization of equipment and techniques used in Canada's sediment survey program.

PORTÉE DE LA PUBLICATION

Des données descriptives sont présentées sur les stations d'étude des sédiments. Elles concernent leur emplacement, leurs latitude et longitude, leur bassin versant, la nature de débit (naturel ou régularisé, avec indication, le cas échéant, de l'année où la régularisation a commencé, si elle est connue), le type d'instrument de mesure employé et le débit total des sédiments en suspension (en tonnes) pour la période de relevé. Les stations internationales de jaugeage sont indiquées, ainsi que le nom des organismes qui fournissent les données. Des explications concernant des conditions exceptionnelles qui ont pu influer sur les résultats sont présentées dans la partie «Remarques».

Cette publication renferme des données sur le débit des cours d'eau, les concentrations instantanées de sédiments en suspension, les concentrations journalières moyennes de sédiments en suspension, les débits journaliers de sédiments en suspension, les concentrations de matières dissoutes, les débits solides totaux (résumés), la granulométrie des sédiments en suspension exprimée en pourcentage de sable, de limon et d'argile, le charriage et les matériaux du lit, la température de l'eau au moment de l'échantillonnage, le type d'échantillonneur employé et l'emplacement des verticales de prélèvement d'échantillons uniques.

Un résumé des données historiques sur les sédiments est inclus. On y trouve divers renseignements comme les concentrations maximale et minimale mesurées, le débit journalier maximal des sédiments en suspension et le total pour la période. La période de relevé et le type d'exploitation des stations sont indiqués pour chaque année. Dans un résumé pour les mois de relevé, on donne la moyenne pour chaque période et pour l'ensemble des périodes de relevé ainsi que l'erreur-type de la moyenne, en pourcentage.

HISTORIQUE ET OBJECTIFS DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts de ces études sont de:

(1) réunir et produire des données sur les transports solides dans les cours d'eau canadiens, données dont on peut avoir besoin pour des études concernant l'environnement, la qualité des eaux et la conception de projets portant sur les ressources en eau.

(2) produire des informations concernant les transports solides.

(3) évaluer, améliorer et uniformiser le matériel et les techniques employés dans le programme d'étude des sédiments au Canada.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Sediment data have been published in a variety of formats since the beginning of the Sediment Survey Program.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* were published in a new format wherein Canada was divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis le début du programme d'étude des sédiments, la présentation des données a varié.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

En 1984, la présentation des *Données sur les sédiments* a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain cross sections are located at traffic bridges, while others are equipped with cableways, or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.
(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.
(c) Depth-integrating suspended sediment samplers, USD-49, and USD-74, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Point-integrating suspended sediment samplers, USP-61, USP-61-A1, USP-63, and USP-72, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross section with velocities up to two metres per second.
(e) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(f) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(g) Bed material sampler, USBMH-60, used on some large or deep streams or on those streams with soft-packed streambeds.

(h) Bed material sampler, USBMH-53, used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment load measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment load by the

COLLECTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) L'échantillonneur intégrateur selon la profondeur, type simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;
(b) L'échantillonneur intégrateur selon la profondeur USDH-59, utilisé comme une ligne dans les cours d'eau petits et moyens;
(c) Les échantillonneurs intégrateurs selon la profondeur USD-49 et USD-74 fixés au bout d'une corde s'enroulant autour d'un moulinet et employés dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;
(d) Les échantillonneurs intégrateurs USP-61, USP-61-A1, USP-63 et USP-72, employés ponctuellement ou sur toute la verticale, et utilisés lorsque la profondeur est supérieure à cinq mètres ou dans les sections transversales qui connaissent un débit qui atteint 2 m/s.
(e) Un échantillonneur automatique permettant le prélèvement en bouteilles, sans surveillance, d'échantillons uniques d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;
(f) L'échantillonneur USBM-54 employé pour le prélèvement d'échantillons des matériaux du lit dans les cours d'eau importants ou profonds ou dans les cours d'eau dont le fond est dur;
(g) L'échantillonneur USBMH-60 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est meuble;
(h) L'échantillonneur USBMH-53 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau petits ou peu profonds;
(i) La drague employée pour le prélèvement d'échantillons des matériaux du lit dans de petits cours d'eau ou dans des cours d'eau dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation de la hauteur des eaux, la mesure du débit de l'eau, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. Les mesures du débit de l'eau et du débit des sédiments se font conjointement, suivant les méthodes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) La mesure périodique du débit des sédiments en suspension par la méthode d'intégration sur toute la profondeur

depth-integrating method for determining the average suspended sediment concentration in the cross section.

(b) Single suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment load measurements are not taken.

(c) Limited measurement of suspended sediment load by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross section.

(d) Sampling of bed material for determining particle-size distribution.

(e) Periodic measurement of bed load.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Load by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the suspended sediment load in the entire cross section of a stream, the average suspended sediment concentration in the cross section, and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the water surface to the streambed and could vary from streambank to streambank.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross section is divided into at least five equal-flow panels and a representative suspended sediment sample is collected from each portion. For each panel of the cross section, the suspended sediment load (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment load (R) for the cross section may be computed by adding the sediment loads for the five equal-flow panels:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment concentration. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Single Suspended Sediment Samples at a Selected Vertical*: Single suspended sediment samples, consisting of two bottles each, are collected routinely using the depth or point-integrating samplers at a permanently fixed vertical in a cross section. During periods of very heavy sediment concentration, two or three single sediment samples may be taken per day, while during periods of low concentration, one single sediment sample may only be taken every few days. During extremely low flow periods, the sampling may be limited to one single sample in several weeks or months.

(c) *Suspended Sediment Load by Point-Integrating Method*: A limited number of suspended sediment load measurements are made by the point-integrating method. These measurements are included in the program (a) to check by comparison the "measured" sediment loads obtained by the depth-integrating method with the suspended sediment loads by the point-integrating method and (b) to obtain samples from which to determine particle-size distribution

pour la détermination de la concentration moyenne dans une section transversale;

(b) Le prélèvement d'échantillons uniques des sédiments en suspension selon une verticale choisie, afin de determiner la concentration des sédiments les journées où le débit des sédiments en suspension n'est pas mesuré;

(c) Un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) L'échantillonnage des matériaux du lit afin d'en déterminer la granulométrie;

(e) La mesure périodique du charriage.

Voici une brève description des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer le débit des sédiments en suspension traversant toute une section transversale d'un cours d'eau, la concentration moyenne des sédiments en suspension dans la section transversale et la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente généralement avec la profondeur et qu'elle peut varier d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches où le débit est égal et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R) pour la section transversale est la somme des débits des sédiments des cinq tranches:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

La méthode par intégration sur toute la profondeur est employée pour mesurer la concentration des sédiments en suspension. Elle suppose que l'échantillonneur se remplit à un rythme proportionnel au débit de l'eau et qu'en étant déplacé à une vitesse uniforme sur toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de celle-ci.

(b) *Prélèvement d'échantillons uniques de sédiments en suspension sur une verticale choisie*: De tels échantillons, constitués chacun de deux bouteilles, sont prélevés régulièrement à l'aide d'appareils intégrateurs, selon la profondeur ou ponctuels, sur une verticale permanente d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon peut être prélevé à quelques jours d'intervalle lorsqu'elle est faible. Au cours des périodes où le débit est extrêmement faible, l'échantillonnage peut être limité à un échantillon toutes les quelques semaine ou tous les quelques mois.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: Un nombre limité de mesures du débit des sédiments en suspension sont faites avec cette méthode. On y a recours a) pour vérifier les valeurs du débit mesurées au moyen de la méthode précédente et b) pour obtenir des échantillons en vue de déterminer la granulométrie des sédiments en divers points de la

at different points in the cross section. The point-integrating sediment loads are computed by graphical methods.

The relationship between the suspended sediment concentration of the single vertical samples and the average concentration in the cross section determined from the suspended sediment load measurements is established for some stations. Using this relationship, the sediment concentrations of the single vertical samples are adjusted to reflect the average suspended sediment concentration in the cross section. These average sediment concentrations in the cross sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated processes using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration (mg/L), by the daily mean discharge (m^3/s), and the conversion factor, 0.0864.

(d) *Bed Material Sampling*: In a cross section, bed material samples are usually taken in the same sampling verticals as the suspended sediment samples. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross section. The total number of bed material samples taken in a cross section usually varies between five and nine.

(e) *Bed Load Measurement*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Load*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario; and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) filtration method, (2) evaporation method and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

section transversale. Cette méthode fait appel à des graphiques pour le calcul du débit des sédiments.

Le rapport entre la concentration des sédiments en suspension dans les échantillons prélevés sur une seule verticale et la concentration moyenne dans la section transversale, telle que déterminée à partir des mesures du débit des sédiments en suspension, est établi pour quelques stations. Il permet de corriger les concentrations mesurées à une seule verticale de manière à donner la concentration moyenne dans la section transversale. Les concentrations moyennes ainsi déterminées sont reportées sur un graphique, et une courbe lisse passant par les points marqués est tracée. Le graphique obtenu représente la concentration moyenne des sédiments en suspension pour la période de relevé. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs journalières du débit des sédiments en suspension sont calculées à partir du débit du cours d'eau et des concentrations des sédiments en suspension recueillis. Elles sont exprimées en tonnes par jour. On les détermine en multipliant la concentration moyenne journalière des sédiments (mg/L) par le débit moyen journalier (m^3/s) et par un facteur de conversion approprié, 0.0864.

(d) *Échantillonnage des matériaux du lit*: Dans une section transversale, les échantillons des matériaux du lit sont ordinairement prélevés aux mêmes verticales que ceux des sédiments en suspension. Souvent, des échantillons supplémentaires sont pris près des rives, là où le niveau d'eau est extrême et à d'autres points de la section transversale. Leur nombre total pour une section donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du charriage*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.). Le choix se fondera sur la nature du régime du cours d'eau.

4. *Débit solide total*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) filtration, (2) évaporation, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à corriger les résultats pour tenir compte des matières dissoutes. La quantité de celles-ci est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Particle-size analysis was carried out for some suspended sediment samples having gross weights in the range of 0.15 to 5 g using the Bottom Withdrawal Tube method. The particle-size distribution of the Bottom Withdrawal Tube method ranges from 0.002 to 1.000 mm. The Sieve analysis method may be used for samples with a large amount of material coarser than 0.062 mm.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.000 24 - 0.004
Silt	0.004 - 0.062
Sand	0.062 - 2.0
Gravel	2.0 - 64.0

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analyzed in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbol (S) on the daily mean concentrations.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those records obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Une analyse granulométrique a été effectuée pour certains échantillons de sédiments en suspension ayant un poids brut dans l'intervalle de 0.15 à 5 g par la méthode de la burette (extraction des sédiments déposés, à divers intervalles). La distribution de la taille des particules déterminée par cette méthode varie de 0.002 à 1.000 mm. La méthode de tamisage peut être employée pour les échantillons ayant une forte quantité de particules de taille supérieure à 0.062 mm.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.000 24 - 0.004
Limon	0.004 - 0.062
Sable	0.062 - 2.0
Gravier	2.0 - 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique avant d'être analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée d'après la fréquence d'utilisation du symbole (S), avec les données sur la concentration journalière moyenne.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas des petits cours d'eau ou des cours d'eau à crues très rapides.

METHOD OF TABULATION OF SEDIMENT DATA

For stations where the suspended sediment load was obtained, the following data are given where available:

1. The table of *Suspended Sediment Load* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, and the daily suspended sediment load in tonnes per day. The total monthly discharge and total monthly sediment load are also given for each month of record.

   For stations where the sediment load in tonnes per day are produced for complete or partial years, the *Total Suspended Load* for the period is given in the descriptive information.

   For stations where only suspended sediment concentrations are obtained, the table of *Suspended Sediment Load* will not be given.

   Additional descriptive information about the sediment station is also given and will indicate the following, where applicable.

   Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

   Drainage area – refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

   Type of Flow – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

   Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

   (a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

   (b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

   International Gauging Station – on waters adjacent to the international boundary, certain gauging stations have been

PRÉSENTATION DES TABLEAUX DE DONNÉES SUR LES SÉDIMENTS

Pour les stations de mesure du débit des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. Le tableau concernant le *débit des sédiments en suspension* (The table of Suspended Sediment Load) donne le débit journalier moyen de l'eau, en mètres cubes par seconde, la concentration journalière moyenne, en milligrammes par litre, et le débit journalier des sédiments en suspension, en tonnes par jour. Chaque mois les données indiquent également les débits mensuels totaux de l'eau et des sédiments.

   Dans le cas des stations où le débit des sédiments, en tonnes par jour, est fourni pour une année complète ou une partie de l'année, le total pour la période est indiqué.

   Dans le cas des stations où seule la concentration des sédiments en suspension est obtenue, ce tableau est absent.

   Des renseignements descriptifs additionnels au sujet de la station sont également présentées. On peut y apporter les précisions suivantes:

   Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à une bonne distance de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

   Superficie du bassin versant (Drainage area) – Désigne la zone délimitée par une ligne de faîte de sorte que l'écoulement de surface direct provenant des précipitations est entraîné par gravité vers le cours d'eau, en amont de la station.

   Type de débit (Type of Flow) – Un débit reconnu comme naturel est indiqué. Le débit de nombreux réseaux hydrographiques est modifié par une régularisation effectuée en amont. Dans certains cas, l'importance de cette régularisation n'est pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique, ainsi que l'année où elle a débuté (si elle est connue).

   Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau ou le débit d'un cours d'eau.

   (a) *Manuel* (Manual) – Indique qu'un appareil non enregistreur est employé pour obtenir normalement une fois par jour les données sur le niveau et le débit du cours d'eau.
   (b) *Enregistreuse* (Recording) – Indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux qui est tracé sur un graphique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

   Station internationale de jaugeage (International Gauging Station) – Dans les eaux contiguës aux frontières, on a

designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

2. The table of *Instantaneous Suspended Sediment Concentration* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Single Sampling Vertical location; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used. The particle-size distribution of Sand, Silt and Clay, in percent is given where available.

The Single Sampling Vertical Location is defined by many symbols, which are as follows, where applicable:

DIGITS - 5, 14, 130, etc., is the distance in metres from the initial point
WERB - Water's Edge RIGHT Bank
WELB - Water's Edge LEFT Bank
1QRB - One-quarter the distance FROM the RIGHT Bank
3QRB - Three-quarters the distance FROM the RIGHT Bank
1QLB - One-quarter the distance FROM the LEFT Bank
3QLB - Three-quarters the distance FROM the LEFT Bank
MID - MID STREAM
MULT - Composite sediment measurement

For the suspended sediment measurements, the Date; Time; Water Temperature at time of sampling; Discharge computed for each sampling panel; Concentration; Sampling Vertical; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used; and the Particle-size distribution of the Sand, Silt and Clay, in percent is given where available.

3. The table of *Point Integrating Particle-size of Suspended Sediment* includes the following: Date and Time of the sample collection; Water Temperature; Panel Discharge for each sampling vertical; Sampling Vertical; Depth of Sample; Concentration of Sample in milligrams per litre; Dissolved Solids, in milligrams per litre, and the Particle-size distribution in percent of the Sand, Silt and Clay are also given.

désigné certaines stations comme «internationales», et les données obtenues sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publications et dans les *United States Water Supply Papers* sont dues à des variantes dans les techniques de traitement automatique des données.

Données fournies (Contributed Data) – Lorsqu'un organisme extérieur a fourni toutes les données ou une partie des données, son nom est indiqué.

Remarques (Remarks) – Renseignements au sujet du prélèvement des échantillons de sédiments.

2. Le tableau des *concentrations instantanées de sédiments en suspension* (The table of Instantaneous Suspended Sediment Concentration) pour les échantillons obtenus par intégration selon la profondeur comprend: la date et l'heure de prélèvement; la température de l'eau; son débit instantané au moment de l'échantillonnage (s'il n'est pas connu, le débit journalier moyen, avec symbole); l'emplacement de la verticale d'échantillonnage; la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage des particules est donnée lorsqu'elle est disponible.

Le site vertical d'échantillonnage unique est défini par plusieurs symboles dont les suivants dans certains cas :

CHIFFRE - 5, 14, 130, etc., désigne la distance en mètres à partir du point initial
WERB - Bord de l'eau, rive DROITE
WELB - Bord de l'eau, rive GAUCHE
1QRB - Un quart de la distance À PARTIR de la rive DROITE
3QRB - Trois quarts de la distance À PARTIR de la rive DROITE
1QLB - Un quart de la distance À PARTIR de la rive GAUCHE
3QLB - Trois quarts de la distance À PARTIR de la rive GAUCHE
MID - MI-DÉBIT
MULT - Mesure des sédiments mixtes

Pour les mesures des sédiments en suspension, la date, l'heure, la température de l'eau au moment de ;'échantillonnage, le débit calculé pour chaque tranche de la section d'échantillonnage, la concentration et la verticale d'échantillonnage, la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage des particules est donnée lorsqu'elle est disponible.

3. Le tableau de la *granulométrie des échantillons ponctuels et intégrés des sédiments en suspension* (The table of Point Integrating Particle-size of Suspended Sediment) comprend: la date et l'heure de prélèvement de l'échantillon, la température de l'eau, le débit de la tranche de la section pour chaque verticale d'échantillonnage, la verticale d'échantillonnage, la profondeur de l'échantillon, la concentration des échantillons, en milligrammes par litre, la concentration des matières dissoutes, en milligrammes par litre, et granulométrie du sable, du limon et de l'argile.

4. The table of *Bed Load Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent, for each sample of bed load collected.

5. The table of *Bed Material Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent, for each sample of bed material collected.

6. The table of *Historical Sediment Data Summary* gives the following, for the period of record, where applicable.

   (a) Record Summary
   (b) Type of Sampling
   (c) Sampled Concentration, maximum and minimum
   (d) Suspended Sediment Load, maximum daily and the total, for the period, in tonnes
   (e) Summary, including mean load, the historical mean load and the standard error of the mean in percent.

(a) The *Record Summary* gives the months of record that data are available. If the complete month is on file the symbol (C) is shown, while partial months of data are indicated by the symbol (P). Months with no data on file are indicated by (-).

(b) The *Type of Sampling* indicates the type of sampling method used to collect the sediment samples during the period of operation. If the samples were collected by manual methods this is indicated by "MANUAL." If the samples were collected by a pump sampler or some other automatic method this is indicated by "AUTO." If both manual and automatic sampling methods were used this is indicated by "DUAL."

(c) The *Sampled Concentration* gives the maximum and minimum concentration, in milligrams per litre, and the date of collection for each year of record. The extreme recorded for the period of record is indicated by an asterisk (*).

(d) The *Suspended Sediment Load* gives the maximum daily load, in tonnes, and the date of occurrence. The extreme recorded is indicated by an asterisk (*). The Total for the Period gives the total load for the period or year, in tonnes. The extreme recorded is also indicated by an asterisk (*). A load which has been revised since the previous publication is marked with the symbol (R) for Revision.

4. Le tableau de la *granulométrie des sédiments charriés* (The table of Bed Load Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage des particules pour chaque échantillon recueilli du charriage.

5. Le tableau de la *granulométrie des matériaux du lit* (The table of Bed Material Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage des particules pour chaque échantillon recueilli.

6. Le tableau du *sommaire chronologique des données sur les sédiments* (The table of Historical Sediment Data Summary) donne, pour la période pour laquelle les données sont disponibles, les renseignements suivants lorsque de telles données existent:

   (a) Le sommaire du relevé
   (b) Le type d'échantillonnage
   (c) Les concentrations mesurées, maximum et minimum
   (d) Le débit des sédiments en suspension, maximum quotidien et le total pour la période en tonnes
   (e) Résumé, comprend le débit moyen, le débit moyen chronologique et l'erreur type de la moyenne en pourcentage.

(a) Le *sommaire du relevé* donne les mois de relevé pour lesquels les données sont disponibles. Le symbole (C) indique que les données sont disponibles pour tout le mois. Le symbole (P) indique que ces données ne sont disponibles que pour une partie du mois. Enfin, on indique par (-) les mois qui n'ont pas de données.

(b) Le *type d'échantillonnage* indique le type de méthode d'échantillonnage que l'on utilise dans le prélèvement des échantillons de sédiments pendant la période d'exploitation. Si le prélèvement des échantillons se fait par des méthodes manuelles, on indique «MANUEL». Si le prélèvement des échantillons se fait au moyen d'échantillonneur à pompe ou par quelque autre méthode automatique, on indique «AUTO». Si on utilise à la fois des méthodes d'échantillonnage manuelles et automatiques, on indique «DOUBLE».

(c) Pour les *concentrations mesurées* (Sampled Concentration), on donne la concentration maximale et la concentration minimale, en milligrammes par litre, et leur date d'obtention pour chaque année de relevé. La valeur extrême enregistrée est indiquée par un astérisque (*).

(d) Sous le *débit des sédiments en suspension* (Suspended Sediment Load), on donne le débit journalier maximal, en tonnes, et sa date de mesure. Le débit extrême enregistré est indiqué par un astérisque (*). Le débit total pour la période ou pour l'année est indiqué. La valeur extrême est également signalée par un astérisque (*). La lettre R indique qu'une valeur du débit a été révisée depuis la dernière publication.

(e) The *Summary* gives the *Mean Load* and the *Historical Mean Load* in tonnes.

The *Standard Error of the Mean* % is calculated using the following equations:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

and

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

where SEM is the Standard Error of the Mean.

- S is the Standard Deviation of the annual mean loads.
- x is the annual Mean Load variable.
- $\bar{x}$ is the Historical Mean Load or the arithmetic mean of the annual Mean Loads.
- n is the number of years for which there is an annual Mean Load.

For stations with only instantaneous samples, this table will not include the *Suspended Sediment Load* or the statistical information in the *Summary*.

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other federal and provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the *Sediment Data Reference Index*.

MICROFICHE

All sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by province. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, province, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

(e) Le *résumé* donne le *débit moyen* et le *débit moyen chronologique*, en tonnes.

L'*erreur-type de la moyenne* % (Standard Error of the Mean), est calculée à l'aide des équations suivantes:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

et

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

où SEM est l'erreur type de la moyenne.

- S est l'écart type des débits moyens annuels.
- x est la variable du débit moyen annuel.
- $\bar{x}$ est le débit moyen chronologique ou la moyenne arithmétique des débits moyens annuels.
- n est le nombre d'années où il y a un débit moyen annuel.

Dans le cas des stations ne prélevant que des échantillons instantanés, ce tableau ne donnera pas le *débit des sédiments en suspension* ni les données statistiques du *résumé*.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Dans les eaux adjacentes à la frontière internationale, les stations dépendent du Canada ou des États-Unis selon l'accord intervenu entre les deux pays, et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées pour l'obtention des données sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

MICROFICHE

Toutes les données sur les sédiments sont disponibles sur microfiche en unités métriques. Ces données sont emmagasinées par ordre de numéro de station et par province. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la province, le numéro de la première et de la dernière station, la première et la dernière année des données ainsi que le mois et l'année de création de la fiche. La dernière image donne l'index de la fiche.

DEFINITION OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed material is the sediment mixture of which the streambed is composed.

Daily load is the suspended sediment load expressed in tonnes for a particular day. The daily load is obtained by multiplying the daily mean sediment concentration (mg/L) by the daily mean discharge (m^3/s) and the conversion factor, 0.0864.

Daily mean concentration is a time-weighted mean value and is computed from a manually constructed concentration curve. The mean concentration value may be determined arithmetically or graphically. The arithmetic mean is obtained either by (1) selecting values from the concentration graph that represents uniform intervals of time and taking the arithmetic average or by (2) selecting values from the graph that represent unequal intervals of time and weighing these values by the time intervals represented by the concentrations. For graphical explanation refer to *Office Procedures for Sediment Data Computations* and for the automated graphical explanation refer to *Automated Hydrometric Computation Procedures*.

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Instantaneous suspended sediment sample is a sample collected at a fixed vertical in a river cross section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of particles in a sediment sample.

Point-integrated sediment sample is a sample of the water-sediment mixture taken over a specified period of time at a fixed point and depth in a river cross section.

DÉFINITION DES TERMES

Les définitions suivantes sont présentées afin de faciliter la compréhension des termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): Prélèvement d'un mélange de sédiments et d'eau au moyen d'une pompe fonctionnant automatiquement, en un point précis d'un cours d'eau.

Charriage (Bed load): Matières roulées ou poussées sur le fond sous l'action de l'eau, mais restant en contact presque permanent avec le fond.

Matériau du lit (Bed material): Mélange de sédiments composant le lit d'un cours d'eau.

Débit journalier des sédiments en suspension (Daily load): Débit des sédiments en suspension exprimé en tonnes par jour, pour une journée donnée. On l'obtient en multipliant la concentration journalière moyenne des sédiments (mg/L) par le débit journalier moyen de l'eau (m^3/s) et le facteur de conversion 0.0864.

Concentration journalière moyenne (Daily mean concentration): Moyenne pondérée en fonction du temps, calculée à partir d'une courbe de la concentration établie manuellement. La valeur de la concentration moyenne peut être déterminée arithmétiquement ou graphiquement. Pour la déterminer arithmétiquement, on peut, soit choisir sur la courbe des valeurs représentant des intervalles uniformes de temps et faire la moyenne arithmétique, soit choisir sur cette courbe des valeurs qui représentent des intervalles inégaux de temps et pondérer ces valeurs en fonction des intervalles de temps correspondants. En ce qui concerne les méthodes graphiques, consulter *Méthodes de bureau pour les calculs de données sur les sédiments* et, pour la méthode automatisée, *Automated Hydrometric Computation Procedures*.

Échantillon intégré sur toute la profondeur (Depth integrated sediment sample): Échantillon des sédiments en suspension prélevé sur une verticale précise d'une section transversale d'un cours d'eau à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante; il représente un échantillon moyen des matières en suspension entre la surface de l'eau et environ 9 cm du fond.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): Échantillon prélevé à une verticale précise d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): Débit des sédiments en suspension qui peut être calculé à partir du débit du cours d'eau et de la concentration des sédiments déterminée à partir d'échantillons intégrés sur toute la profondeur.

Analyse granulométrique (Particle-size analysis): Détermination de la répartition de la taille des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré (Point-integrated sediment sample): Échantillon constitué d'un mélange d'eau et de sédiments, prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau et à une profondeur donnée.

Sediment is fragmental material which has deposited, eroded or transported by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Single sample is a sample taken at a selected permanent vertical in a cross section. Two bottles of water-sediment mixture make up each single sample.

Single sampling vertical is a selected permanent vertical in a cross section in which single suspended sediment samples are collected.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. The units of this ratio are "milligrams per litre" (mg/L).

Suspended sediment load is the quantity of suspended sediment transported through a cross section per unit of time.

Total sediment load is the sum of the suspended sediment load and the bed load.

Unmeasured sediment load is the difference between total sediment load and measured suspended sediment load.

Sédiments (Sediment): Matières fragmentaires qui ont été déposées, érodées ou transportées par un cours d'eau.

Hydrogramme des sédiments (Sediment hydrograph): Graphique représentant la variation de la concentration des sédiments en suspension ou du débit des sédiments en fonction du temps.

Échantillon unique (Single sample): Échantillon prélevé sur une verticale permanente particulière dans une section transversale. Deux bouteilles du mélange eau-sédiments constituent un seul échantillon.

Verticale d'échantillonnage unique (Single sampling vertical): Verticale permanente d'une section transversale où des échantillons uniques de sédiments en suspension sont prélevés.

Sédiments en suspension (Suspended sediment): Matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): Rapport entre le poids des matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Les unités employées sont les «milligrammes par litre» (mg/L).

Débit des sédiments en suspension (Suspended sediment load): Quantité de sédiments en suspension transportés par unité de temps à travers une section transversale d'un cours d'eau.

Débit total des sédiments (Total sediment load): Somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments (Unmeasured sediment load): Différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when the data were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway.

Revisions to daily discharges or sediment data are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Revisions, corrections or additions made to discharges and sediment after January 1, 1980, are indicated by an "R" symbol in the data summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

RÉVISIONS

On a corrigé ou révisé des données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calcul lorsqu'on a enregistré les données sur rubans magnétiques et qu'on a recalculé les moyennes mensuelles à l'aide d'un ordinateur. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de certaines données de base au cours de la révision systématique des données historiques sur le débit, actuellement en cours.

Les corrections apportées aux débits journaliers ou aux données sur les sédiments ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont indiquées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données révisées sur les débits mensuels et annuels moyens et les extrêmes annuels du débit. Les révisions, corrections ou ajouts apportés aux données sur les débits et sur les sédiments après le 1er janvier 1980 sont indiqués par la lettre R dans les résumés des données. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 1.6093 km (kilomètre)

1 cm (centimètre) vaut 0.393 70 pouce
1 m (mètre) vaut 3.2808 pieds
1 km (kilomètre) vaut 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre vaut 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré vaut 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 259.0 ha (hectares)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) vaut 2.4710 acres
1 km^2 (kilomètre carré) vaut 0.386 10 mille carré

1 pied cube vaut 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial vaut 1.2010 gallon américain
1 gallon américain vaut 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour vaut 1.9835 acre-pied
1 pied cube par seconde pendant un jour couvre un volume d'un mille carré par 0.037 19 pouce
1 acre-pied vaut 1.2335 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde vaut 0.6818 mille par heure
1 mille par heure vaut 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètres par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde vaut 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) vaut 35.315 pieds cubes par seconde

1 livre vaut 0.453 59 kg (kilogramme)
1 kg (kilogramme) vaut 2.2046 livres

1 tonne courte (2000 livres) vaut 0.907 18 t (tonne)
1 t (tonne) vaut 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

ALBANY RIVER NEAR HAT ISLAND - STATION NO. 04HA001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 10	09:00	4.0	3280	MID	D49	76	143														
AUG 26	12:00	16.0	2180	MID	SURF	48	115														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

ALBANY RIVER NEAR HAT ISLAND - STATION NO. 04HA001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	----PPPP----	MANUAL	15	JUN 21	4	AUG 22	---	---	---	---	---	---
1976	----P-------	MANUAL	11	MAY 28	11	MAY 28	---	---	---	---	---	---
1977	-----P------	MANUAL	11	JUN 02	11	JUN 02	---	---	---	---	---	---
1978	--------P----	MANUAL	40	AUG 10	40	AUG 10	---	---	---	---	---	---
1980	--------P----	MANUAL	71	AUG 13	71	AUG 13	---	---	---	---	---	---
1981	----P--P-P--	MANUAL	711	MAY 10 *	44	AUG 09	---	---	---	---	---	---
1982	----P-P-----	MANUAL	102	MAY 13	55	JUL 28	---	---	---	---	---	---
1983	----P--P--P-	MANUAL	120	MAY 12	3	AUG 09 *	---	---	---	---	---	---
1985	----P--P----	MANUAL	76	MAY 10	46	AUG 26	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

ATTAWAPISKAT RIVER BELOW MUKETEI RIVER - STATION NO. 04FC001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
AUG 20	14:30	12.0	513	MID	SURF	61	103														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

ATTAWAPISKAT RIVER BELOW MUKETEI RIVER - STATION NO. 04FC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	----P-PP----	MANUAL	20	JUL 05	7	AUG 23	---	---	---	---	---	---
1976	----P-------	MANUAL	11	MAY 30	11	MAY 30	---	---	---	---	---	---
1977	-----P------	MANUAL	10	JUN 04	10	JUN 04	---	---	---	---	---	---
1980	--------P----	MANUAL	80	AUG 13 *	80	AUG 13	---	---	---	---	---	---
1981	---------P---	MANUAL	70	SEP 30	70	SEP 30	---	---	---	---	---	---
1982	----P----P--	MANUAL	89	MAY 17	7	OCT 18	---	---	---	---	---	---
1983	----P--P-P--	MANUAL	31	OCT 27	1	AUG 06 *	---	---	---	---	---	---
1985	-------P----	MANUAL	61	AUG 20	61	AUG 20	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 43 04 20 N LONG 81 39 35 W
DRAINAGE AREA: 885 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 45 200 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	82.3	154	1 100	2.01 B	11	1.91	104 E	45 S	404	1
2	83.8	112 S	811	2.00 B	9	1.56	82.4 E	47 S	335	2
3	66.1	36 S	181	1.95 B	9	1.52	84.7	33 S	184	3
4	32.8	21 S	59.5	1.90 B	11	1.81	43.8	28 S	110	4
5	21.8	18 S	33.4	1.85 B	11	1.76	41.5	33 S	118	5
6	14.6	18 S	22.7	1.82 B	12	1.89	44.6	27 S	104	6
7	11.4	18 S	17.7	1.80 B	12	1.87	39.0	17 S	57.3	7
8	9.12	21 S	16.5	1.78 B	13	2.00	43.5	81 S	304	8
9	7.76	23	15.4	1.73 B	14	2.09	91.7	84 S	745	9
10	6.80 B	21	12.3	1.70 B	29	4.26	101	83 S	550	10
11	6.10 B	21	11.1	2.05 B	84 S	11.3	111	87 S	843	11
12	5.50 B	21	9.98	2.50 B	88	18.6	120	89 S	715	12
13	5.00 B	22	9.50	3.00 B	117	30.3	125	44 S	475	13
14	4.50 B	19	7.39	3.60 B	142	44.2	91.3	33 S	260	14
15	4.10 B	19	6.73	4.20 B	137	48.7	70.9	29 S	178	15
16	3.80 B	19	6.24	5.00 B	119	51.4	55.2	22 S	107	16
17	3.55 B	19	5.83	5.00 B	100	51.8	51.3	25 S	115	17
18	3.30 B	20	5.70	5.85 B	88	45.2	39.7	14 S	48.0	18
19	3.10 B	18	4.82	5.80 B	78 S	39.1	28.2	14 S	35.3	19
20	2.90 B	18	4.01	5.85 B	89	33.7	23.7	18	36.9	20
21	2.75 B	10	2.38	5.80 B	88	32.9	22.4	19	38.8	21
22	2.62 B	8	1.81	11.0 B	117	111	21.0	15	27.2	22
23	2.50 B	8	1.73	50.0 B	148 S	639	20.4	19	33.5	23
24	2.40 B	8 S	1.66	185 B	180 S	3 050	21.2	21	38.5	24
25	2.30 B	9	1.79	351 B	130 S	3 940	23.6	35	71.4	25
26	2.22 B	11	2.11	280 B	89 S	2 150	22.0	25	47.5	26
27	2.18 B	11	2.07	228 E	80 S	1 580	21.2	34 S	62.3	27
28	2.14 B	13	2.40	183 E	45 S	634	36.7	124	393	28
29	2.10 B	9	1.83				83.1	162 S	883	29
30	2.07 B	8	1.43				61.8	135	721	30
31	2.04 B	9	1.59				42.3	89	325	31
TOTAL	395.35		2 381.40	1 337.89		12 532.87	1 730.2		8 183.7	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	82.7	112	807	3.17	73 S	20.0				
2	47.6	73	300	2.90	77	19.3	6.08	143	75.1	1
3	40.1	39	135	2.79	73 S	17.6	3.88	93 S	28.6	2
4	47.8	37	153	2.80	71	15.9	2.42	89	18.7	3
5	57.7	107 S	533	2.52	71	15.5	2.02	121 S	21.1	4
6	107	190	1 760	2.54	71	15.6	1.83	134	21.2	5
7	102	78	670	2.57	69	15.3	1.51	109 S	14.2	6
8	57.0	54	266	2.52	70 S	15.2	1.19	88	10.1	7
9	30.1	47	122	2.35	71	14.3	1.07	86 S	8.88	8
10	20.6	43 S	75.5	2.19	68	12.9	1.09	85	8.95	9
11	16.7	46	65.4	1.82	75 S	12.6	1.08	86	8.98	10
12	14.2	62	76.1	1.72	77	11.4	1.01	80 S	7.85	11
13	12.3	70 S	74.4	1.58	67 S	9.03	1.18	103	10.5	12
14	11.0	84	80.8	1.54	71	9.45	1.30	110	12.4	13
15	9.88	81 S	62.1	1.63	88 S	13.8	1.15	86 S	8.48	14
16	8.85	85	49.7	1.82	117	18.4	1.08	70	6.35	15
17	8.03	82 S	58.9	1.88	85 S	13.9	1.11	88	8.33	16
18	7.33	88	54.5	1.80	79	10.2	2.02	112	19.6	17
19	6.78	81 S	47.4	1.41	71	8.65	12.7	208 S	228	18
20	6.23	76	40.9	1.37	88 S	8.05	11.7	140	142	19
21	5.73	73	36.1	1.45	80	10.0	7.37	134	85.3	20
22	5.33	73 S	33.6	1.80	84 S	12.2	4.82	131 S	55.7	21
23	4.85	75	32.1	1.37	83	11.0	3.34	127	36.6	22
24	4.77	84 S	34.6	1.27	107	11.7	3.37	137	39.9	23
25	4.61	88	35.7	1.24	128 S	13.7	2.89	113 S	29.2	24
26	4.53	78 S	30.9	1.13	123	12.0	2.75	95	22.6	25
27	4.08	70	24.7	1.85	136	21.7	2.13	85	15.8	26
28	3.78	62	20.1	2.85	114 S	29.1	1.80	76	11.8	27
29	3.52	58 S	17.6	2.61	103	23.2	1.63	75 S	10.6	28
30	3.28	63	17.9	2.55	124 S	28.4	1.48	76	9.72	29
31				2.79	121	29.2	2.77	88	23.5	30
										31
TOTAL	718.56		5 485.0	83.09		479.28	88.73		998.71	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	2.87	83 S	16.4	0.484 E	105	4.52	2.98	157	40.4	1
2	1.80	80	8.29	0.485 E	102	4.36	4.31	148 S	54.0	2
3	1.66	89 S	12.8	0.486 E	100 S	4.29	3.58	125	38.4	3
4	1.99	141	24.2	0.485 E	95	4.11	2.79	133	32.1	4
5	1.80	126	17.4	0.485 E	92	3.83	2.38	140	28.5	5
6	1.36	112 S	13.2	0.482 E	87	3.70	2.11	136 S	24.8	6
7	1.19	108	10.8	0.483 E	85	3.62	1.91	145	23.9	7
8	1.13	95	9.28	0.484 E	81 S	3.48	30.6	877 S	1 800	8
9	1.08	87	8.12	0.484 E	78	3.37	55.1	170 S	809	9
10	1.88	102	14.8	0.484 E	82	3.60	14.8	86 S	110	10
11	3.71	133 S	42.6	0.484 E	85	3.83	8.45	164 S	120	11
12	3.44	120	35.7	0.484 E	86 S	3.87	5.73	168 S	133	12
13	2.22	107	20.5	0.483 E	88	3.78	10.6	117	109	13
14	1.61	98	13.8	0.484 E	94	4.01	5.99	118	61.7	14
15	1.32	104	11.8	0.486 E	97 S	4.15	6.47	124 S	69.3	15
16	1.24 A	128 S	13.8	0.486 E	102	4.37	4.39	133	48.7	16
17	1.10 E	140	13.3	0.486 E	105	4.50	3.08	122	32.3	17
18	1.00 E	136	11.6	0.485 E	110	4.70	2.42	124 S	25.8	18
19	0.850 E	127 S	9.33	0.484 E	118 S	5.04	2.13	94	17.3	19
20	1.15 E	119	11.8	0.485 E	123	5.27	1.91	79	13.0	20
21	1.20 E	128	13.1	0.520 E	123	5.53	2.16 A	97 S	18.3	21
22	0.950 E	113	9.28	0.597 A	124 S	6.40	1.90 E	98	15.6	22
23	0.750 E	105	6.80	0.808	115	8.02	1.65 E	89	12.7	23
24	0.680 E	105	6.17	0.769	110	7.31	1.50 E	86 S	11.1	24
25	0.810 E	107 S	8.04	1.81	119	18.8	1.35 E	87	10.1	25
26	0.800 E	108	5.85	2.48	117 S	25.1	1.25 E	87	9.40	26
27	0.600 E	105	5.85	8.02	178	83.1	1.25 E	87	9.40	27
28	0.598 E	113	5.84	5.12	152	67.2	1.27 E	84 S	9.22	28
29	0.595 E	109	5.60	3.32	139 S	37.0	1.20 E	91	9.43	29
30	0.495 E	109 S	4.87	2.96	128	28.5	1.07 E	91	8.41	30
31	0.495 E	107	4.58	2.50	127	27.4				31
TOTAL	40.974		383.80	36.992		402.18	193.69		3 732.86	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	1.00 E	87 S	7.52	3.81	47	15.5	17.3	37	55.3	1
2	0.969 A	88	7.37	3.41	46	13.3	45.9	80	317	2
3	0.915	81	6.40	3.55	60	18.4	37.9	57 S	187	3
4	0.895	74 S	5.72	8.41	81 S	58.9	24.1	54	112	4
5	0.901	70	5.45	36.3	72	226	18.8	58	94.2	5
6	0.865	69	5.28	62.9	51 S	277	15.2	62 S	81.4	6
7	0.875	68 S	5.14	61.0	49	343	12.9	58	64.6	7
8	0.922	65	5.18	80.1	57	671	11.6	53	53.1	8
9	0.989	71	6.07	86.6	162	1 380	10.9	51 S	48.0	9
10	1.02	72	6.35	44.9	152 S	590	11.7	53	53.6	10
11	1.03	64 S	5.70	30.4	55	144	30.6	72	128	11
12	1.04	63	5.88	40.5	38 S	133	25.0	61	132	12
13	2.94	111	28.2	42.1	51	186	22.2	34 S	65.2	13
14	8.23	142 S	78.4	52.7	41 S	187	17.9	29	44.9	14
15	5.59	136 S	65.2	53.0	66	302	14.3 B	24	29.7	15
16	4.85	131	54.9	50.7	26 S	114	12.0 B	24	24.9	16
17	4.08	109	38.4	48.1	21	87.3	10.0 B	34	29.4	17
18	3.71	100 S	32.1	38.2 A	12 S	39.6	8.40 B	42 S	30.5	18
19	45.2	297 S	1 160	38.8 A	37	124	7.30 B	37	23.3	19
20	72.0	180	1 120	37.7 A	47 S	153	6.50 B	32	18.0	20
21	38.3	80 S	185	30.1	28	72.8	5.00 B	28	14.5	21
22	26.2	51	115	23.1	14	27.9	5.40 B	28	13.1	22
23	17.8	87 S	134	18.1	11 S	17.2	5.22 B	32	14.4	23
24	12.2	117	123	14.7	9	11.4	5.50 B	22 S	10.5	24
25	9.90	103	84.5	12.1	5	5.23	5.00 B	16	6.91	25
26	9.03	121	94.4	12.5	15 S	18.2	4.70 B	17	6.90	26
27	9.31	110 S	88.5	26.6	43	86.6	4.50 B	17	6.81	27
28	7.96	88	59.1	25.1	22	47.7	4.32 B	16	5.72	28
29	6.44	86	36.7	18.6	14 S	22.5	4.20 B	19	6.89	29
30	5.25	59	26.8	15.3	14	19.7	4.02 B	19	6.60	30
31	4.41	54 S	20.6				3.93 B	21 S	7.11	31
TOTAL	302.481		3 594.66	1 040.89		5 382.43	403.28		1 692.34	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 02	13:30	0.1	107		MID	DH59	114	223														
JAN 03	13:30	0.1	84.3		MID	DH59	27															
JAN 04	13:30	0.1	28.7		MID	DH59	20															
JAN 05	15:00	0.1	19.7		MID	DH59	17	362														
JAN 06	15:00	0.1	13.9		MID	DH59	16															
JAN 07	15:50	0.1	10.9		MID	DH59	18															
JAN 08	15:00	0.1	8.52		MID	DH59	21															
JAN 24	14:15	0.1	2.40	W	MID	DH59	8	413														
FEB 11	11:00	0.1	2.05	W	MID	DH59	67															
FEB 18	14:00	0.1	5.80	W	MID	DH59	80	344														
FEB 23	17:30	0.1	50.0	W	MID	DH59	146															
FEB 24	08:30	0.1	186	W	MID	DH59	139															
FEB 24	13:00	0.1	186	W	MID	DH59	151	189														
FEB 24	17:15	0.1	186	W	MID	DH59	226															
FEB 25	10:30	0.1	351	W	MID	DH59	112	178														
FEB 25	15:30	0.1	351	W	MID	DH59	112															
FEB 25	17:45	0.1	351		MID	DH59	107															
FEB 26	10:30	0.1	280	W	MID	DH59	74															
FEB 26	13:45	0.1	280	W	MID	DH59	97															
FEB 26	17:45	0.1	280	W	MID	DH59	107															
FEB 27	09:30		229	Y	MID	DH59	84	195														
FEB 27	11:00		229	Y	MID	DH59	85															
FEB 27	13:45		253		MID	DH59	78															
FEB 27	18:00		229	Y	MID	DH59	74															
FEB 28	08:20		163	Y	MID	DH59	37															
FEB 28	13:20	2.0	176		MID	DH59	47															
FEB 28	17:40	2.0	183	Y	MID	DH59	52	225														
MAR 01	08:15	2.0	104	Y	MID	DH59	40															
MAR 01	13:00		104	Y	MID	DH59	47															
MAR 01	15:30		104	Y	MID	DH59	51															
MAR 01	18:15		104	Y	MID	DH59	48	234														
MAR 02	08:15		82.4	Y	MID	DH59	56															
MAR 02	13:45		75.8		MID	DH59	51															
MAR 02	17:45		82.4	Y	MID	DH59	45															
MAR 03	08:10		71.2		MID	SURF	36															
MAR 03	13:30		61.8		MID	SURF	29															
MAR 03	17:15		57.6		MID	SURF	33	260														
MAR 04	15:10		38.6		MID	SURF	27															
MAR 04	17:50		35.9		MID	SURF	28															
MAR 05	08:15		34.6		MID	SURF	31															
MAR 05	12:45		40.5		MID	SURF	34															
MAR 05	08:15		48.1		MID	SURF	21															
MAR 05	14:00		44.6		MID	DH59	33															
MAR 06	18:20		42.8		MID	SURF	34															
MAR 07	08:20		41.7		MID	SURF	13															
MAR 07	14:00		40.2		MID	DH59	24															
MAR 07	15:45		38.7		MID	DH59	19	206														
MAR 08	08:10		34.4		MID	SURF	17															
MAR 08	14:00	5.0	34.8		MID	DH59	30															
MAR 08	18:30		47.3		MID	DH59	183															
MAR 09	08:30		92.6		MID	SURF	80	214														
MAR 09	13:45	5.0	83.3		MID	DH59	91															
MAR 09	18:00		83.5		MID	DH59	78	224														
MAR 10	08:30		100		MID	SURF	72															
MAR 10	12:30		102		MID	DH59	68															
MAR 10	17:30		103		MID	DH59	59															
MAR 11	09:15		110		MID	DH59	75	224														
MAR 11	13:20		113		MID	DH59	81															
MAR 11	17:45		115		MID	DH59	67															
MAR 12	13:30		120		MID	DH59	56															
MAR 12	17:45		126		MID	DH59	80															
MAR 13	08:40		132		MID	DH59	21															
MAR 13	13:20		127		MID	DH59	52	214														
MAR 13	17:45		121		MID	DH59	43															
MAR 14	08:30		97.2		MID	DH59	36															
MAR 14	13:20		90.0		MID	DH59	33															
MAR 14	17:45		83.8		MID	DH59	32															
MAR 15	09:00		72.1		MID	DH59	34															
MAR 15	17:45		70.8		MID	DH59	29															
MAR 16	08:15		58.1		MID	DH59	21															
MAR 16	16:50		53.1		MID	DH59	24	280														
MAR 17	08:10		50.9		MID	DH59	26															
MAR 17	16:20		53.4		MID	DH59	31															
MAR 18	09:00		41.0		MID	DH59	18															
MAR 18	18:00		38.9		MID	DH59	13															
MAR 19	08:15		31.3		MID	DH59	13															
MAR 19	18:00		26.0		MID	DH59	17															
MAR 27	19:00		21.9		MID	DH59	47															
MAR 28	11:00		31.3		MID	DH59	127															
MAR 29	13:45	5.0	84.2		MID	DH59	166	250														
APR 05	15:15	13.0	80.4		MID	DH59	123															
APR 10	13:45	5.0	19.7		MID	DH59	43	291														
APR 13	09:50	5.0	12.4		MID	DH59	71															
APR 16	19:00	13.0	9.62		MID	DH59	63															
APR 17	10:15	10.5	7.98		MID	DH59	82															
APR 18	16:00	13.0	8.84		MID	DH59	81															
APR 22	16:00	19.2	5.00		MID	DH59	70															
APR 24	19:00	18.0	4.87		MID	DH59	88															
APR 26	19:00	17.0	4.38		MID	DH59	76															
APR 29	18:30	15.5	3.42		MID	DH59	58															
MAY 01	19:00	15.0	3.07		MID	DH59	76															
MAY 03	19:20	15.0	2.68		MID	DH59	72															
MAY 08	17:00	16.5	2.46		MID	DH59	71															
MAY 11	15:00	19.0	1.80		MID	DH59	78															
MAY 13	18:20	22.0	1.56		MID	DH59	68															
MAY 15	19:00	20.0	1.59		MID	DH59	109															
MAY 17	17:25	17.0	1.59		MID	DH59	89															
MAY 20	16:30	16.0	1.32		MID	DH59	88															
MAY 22	16:00	16.0	1.47		MID	DH59	93															
MAY 25	16:10	21.0	1.19		MID	DH59	131															
MAY 28	15:45	18.0	2.98		MID	DH59	104															
MAY 30	11:30	19.0	2.64		MID	DH59	125	324														
JUN 02	15:00	18.0	3.41		MID	DH59	87															

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS Y - DAILY MEAN; ESTIMATED

CONTINUED

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND SILT CLAY
JUN 04	15:00	19.0	1.87		MID	DH59	132			
JUN 06	17:00	21.0	1.45		MID	DH59	102			
JUN 08	13:45	21.5	1.04		MID	DH59	97			
JUN 11	19:10	18.0	0.880		MID	DH59	88			
JUN 14	19:00	18.0	1.12		MID	DH59	77			
JUN 18	15:15	18.0	15.4		MID	DH59	134	559		
JUN 21	16:30	20.0	4.52		MID	DH59	134			
JUN 24	19:20	22.0	2.73		MID	DH59	101			
JUN 28	16:00	24.5	1.83		MID	DH59	78			
JUL 01	15:30	22.0	2.19		MID	DH59	76			
JUL 03	12:45	21.0	1.51		MID	DH59	81			
JUL 06	16:15	19.0	1.32		MID	DH59	113			
JUL 11	18:30	25.0	3.77		MID	DH59	128			
JUL 16	15:00	25.0	1.24		MID	DH59	134			
JUL 19	16:00	25.0	0.850	Y	MID	DH59	122			
JUL 25	16:00	25.0	0.610	Y	MID	DH59	109			
JUL 30	13:00	22.0	0.496		MID	DH59	110	234		
AUG 03	10:30	20.0	0.496	Y	MID	DH59	97			
AUG 08	15:45	24.0	0.494	Y	MID	DH59	79			
AUG 12	19:00	24.0	0.494	Y	MID	DH59	85			
AUG 15	16:45	23.0	0.496	Y	MID	DH59	98			
AUG 19	15:15	22.0	0.494	Y	MID	DH59	120			
AUG 22	19:00	20.0	0.597		MID	DH59	124			
AUG 26	15:00	20.0	1.93		MID	DH59	109			
AUG 29	18:00	20.5	3.25		MID	DH59	125			
SEP 02	15:00	22.0	4.51		MID	DH59	137			
SEP 06	19:40	25.0	2.08		MID	DH59	131			
SEP 08	17:45	24.0	46.8		MID	DH59	903	224		
SEP 09	14:45	24.0	84.7		MID	DH59	104	283		
SEP 10	14:30	18.0	12.4		MID	SURF	80			
SEP 11	10:45	18.0	8.26		MID	DH59	173			
SEP 12	15:50	14.0	9.78		MID	DH59	143	342		
SEP 15	14:50	15.5	6.36		MID	DH59	127			
SEP 18	15:00	17.0	2.28		MID	DH59	126			
SEP 21	17:00	20.0	2.18	Y	MID	DH59	98			
SEP 24	15:15	20.0	1.50	Y	MID	DH59	85			
SEP 28	15:30	16.0	1.27	Y	MID	DH59	81	271		
OCT 01	16:00	16.0	1.00	Y	MID	DH59	88			
OCT 04	14:00	14.0	0.893		MID	DH59	73			
OCT 07	15:30	13.0	0.871		MID	DH59	87			
OCT 11	16:00	14.0	1.02		MID	DH59	82	283		
OCT 14	16:00	14.0	6.88		MID	DH59	124			
OCT 15	12:30	13.0	5.50		MID	DH59	139			
OCT 18	16:00	13.0	3.45		MID	DH59	95			
OCT 19	15:30	14.0	63.4		MID	DH59	380	337		
OCT 21	15:00	11.0	36.1		MID	DH59	46			
OCT 23	14:30	12.5	17.2		MID	DH59	93			
OCT 27	10:20	11.0	9.72		MID	DH59	113			
OCT 31	16:30	9.0	4.33		MID	DH59	50			
NOV 04	15:30	10.0	9.36		MID	DH59	84			
NOV 06	15:00	10.0	28.7		MID	DH59	49			
NOV 10	15:00	7.0	66.2		MID	DH59	150	442		
NOV 12	09:30	6.0	41.8		MID	DH59	28			
NOV 14	16:00	7.0	51.0		MID	DH59	45	435		
NOV 16	14:45	6.0	49.4		MID	DH59	22			
NOV 18	17:00	5.0	35.5		MID	DH59	13			
NOV 20	15:30	9.0	40.5		MID	DH59	46			
NOV 23	16:00	5.0	17.3		MID	DH59	10			
NOV 26	16:00	3.0	12.4		MID	DH59	18			
NOV 28	16:00	3.0	17.5		MID	DH59	13	433		
DEC 03	16:45	1.0	31.8		MID	SURF	51			
DEC 06	16:00	2.0	14.5		MID	DH59	83			
DEC 09	17:00	2.0	10.6		MID	DH59	50			
DEC 13	16:00	0.1	21.4		MID	SURF	31	412		
DEC 18	16:00	0.1	8.40	W	MID	SURF	42			
DEC 24	15:45	0.1	5.50	W	MID	SURF	19			
DEC 31	14:00	0.1	3.92	W	MID	SURF	22			

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

DISCHARGE SYMBOL(S): Y - DAILY MEAN; MANUAL GAUGE W - DAILY MEAN; ICE CONDITIONS Y - DAILY MEAN, ESTIMATED

ONTARIO

AUSABLE RIVER NEAR SPRINGBANK - STATION NO. 02FF002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1970	CCCCCCCCCCCC	MANUAL	888	MAY 18	11	JAN 27	4 520	MAY 18	35 200	98.3	98.3	---
1971	---CCCCCCCCC	MANUAL	238	AUG 27	18	DEC 21	887	APR 02	7 480	---	---	---
1972	CCCCCCCCCCCC	MANUAL	827	APR 17	20	FEB 22	7 780	APR 17	41 000	112	104	7.5
1973	CCCCCCCCCCCC	MANUAL	955	MAR 11	16	NOV 10	7 870	JAN 01	85 600	180	129	19.5
1974	CCCCCCCCCCCC	MANUAL	1 220	APR 04	12	DEC 20	15 200	MAR 05	93 600 *	256	151	22.7
1975	CCCCCCCCCCCC	MANUAL	1 480	APR 19	11	JAN 20	18 700	APR 19	75 200	208	170	17.4
1976	CCCCCCCCCCCC	MANUAL	604	JUL 10	22	DEC 08	5 220	MAR 06	65 500	179	172	14.1
1977	CCCCCCCCCCCC	MANUAL	848	JUN 29	43	MAR 23	6 600	MAR 13	65 500	179	173	11.9
1978	CCCCCCCCCCCC	MANUAL	414	APR 11	31	MAR 29	4 180	APR 02	39 400	108	185	11.8
1979	CCCCCCCCCCCC	MANUAL	1 550	APR 14	24	DEC 29	33 200	APR 14 *	92 900	255	175	11.4
1980	CCCCCCCCCCCC	MANUAL	758	JUN 29	19	FEB 05	5 880	MAR 22	41 500	113	158	11.2
1981	CCCCCCCCCCCC	MANUAL	890	SEP 02	11	DEC 30	4 200	SEP 02	41 300	113	182	10.9
1982	CCCCCCCCCCCC	MANUAL	1 630	MAR 31 *	8	JAN 20	18 700	MAR 31	85 700	180	185	9.9
1983	CCCCCCCCCCCC	MANUAL	712	APR 10	7	JAN 08 *	3 850	MAY 03	29 600	81.2	158	10.3
1984	CCCCCCCCCCCC	MANUAL	770	MAR 16	7	JAN 27	4 330	MAR 17	42 900	117	155	9.9
1985	CCCCCCCCCCCC	MANUAL	903	SEP 08	8	JAN 24	3 940	FEB 25	45 200	124	153	9.5

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

BAYFIELD RIVER NEAR VARNA - STATION NO. 02FF007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 10	12:45	2.0	10.6	MID	DH59	16	303														
MAY 13	11:20	17.0	1.09	MID	DH48	13	332														
MAY 21	12:10	15.0	1.43	MID	DH48	6															
JUN 26	12:10	17.0	1.56	MID	DH48	33	330														
AUG 14	11:10	21.5	0.161	MID	DH48	10	374														
SEP 16	15:30	16.0	1.90	MID	DH48	28	201														
NOV 07	10:00	8.5	9.26	MID	DH48	12	429														
DEC 03	13:20	0.1	17.0	MID	DH48	52	388														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

BAYFIELD RIVER NEAR VARNA - STATION NO. 02FF007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPP-PP-PP	MANUAL	52	DEC 03 *	6	MAY 21 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 42 41 05 N LONG 80 32 15 W
DRAINAGE AREA: 591 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 29 500 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	16.3	284	372	4.65 B	20 S	8.04	30.8 E	107 S	285	1
2	19.4	203 S	340	4.80 B	19	7.55	28.8 E	107	266	2
3	16.7	113	183	4.85 B	19	7.47	24.4 E	101	213	3
4	15.2	87 S	114	4.47 B	15	5.79	22.1 E	93	178	4
5	14.0	75	90.7	4.43 B	18 S	6.89	21.5 E	86	160	5
6	11.7	63	63.7	4.40 B	24	9.12	21.6 E	81 S	151	6
7	9.80	52	44.0	4.38 B	32	12.1	20.7 E	85	152	7
8	8.82	44	33.5	4.35 B	31	11.7	20.9 E	121 S	218	8
9	8.91	37 S	22.1	4.27 B	32	11.8	25.2 E	158	361	9
10	8.50 B	48	27.0	4.30 B	48 S	17.8	28.0 E	149	360	10
11	8.30 B	64	34.8	4.35 B	56	21.0	30.1 E	118	307	11
12	8.15 B	54	28.7	4.45 B	63	24.2	33.3 E	93 S	268	12
13	8.05 B	48	25.1	4.60 B	75	29.8	32.3 E	74	207	13
14	5.95 B	45	23.1	4.70 B	80	32.5	31.0 E	68 S	182	14
15	5.85 B	40	20.2	4.60 B	85	25.8	27.8 E	81 S	195	15
16	5.75 B	38 S	18.9	4.45 B	57	21.9	22.4 E	89 S	172	16
17	5.65 B	45	22.5	4.33 B	51	19.1	20.0 E	87	150	17
18	5.60 B	40	19.4	4.25 B	51 S	18.8	18.3 E	78	123	18
19	5.55 B	33	15.8	4.23 B	50	18.3	16.5 E	74 S	105	19
20	5.50 B	28	13.3	4.20 B	50 S	18.1	15.3 E	73 S	96 S	20
21	5.45 B	29	13.7	4.27 B	49	18.1	14.1	85	79.2	21
22	5.40 B	39	18.2	4.50 B	53	20.8	13.1	89	78.1	22
23	5.35 B	33	15.3	8.44 E	85	82.0	12.8	104 S	116	23
24	5.25 B	26 S	11.8	19.8 E	131	224	14.5	102	128	24
25	5.15 B	27	12.0	44.2 E	185 S	705	15.7	77 S	104	25
26	5.10 B	28	12.3	80.0 E	370 S	1 920	14.7	58	73.7	26
27	5.05 B	25	11.3	61.4 E	187	992	14.7	59	74.9	27
28	5.00 B	25 S	10.8	42.5 E	105 S	388	17.9	252 S	390	28
29	4.90 B	24	10.2				20.2	342 S	597	29
30	4.75 B	22 S	9.03				21.2	181	332	30
31	4.70 B	23	9.34				23.2	173	347	31
TOTAL	241.78		1 845.77	333.78		4 856.46	571.3		8 451.4	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	26.6	142 S	326	7.11	37 S	22.7	10.7	635	587	1
2	26.1	95 S	214	6.96	35	21.0	7.10	178	109	2
3	26.2 E	123 S	300	6.81	29 S	17.1	6.18	105 S	56.1	3
4	26.3 E	123	279	6.68	30	17.3	5.63	85 S	41.3	4
5	22.6 E	119 S	232	6.83	31	17.8	5.33	91 S	41.9	5
6	21.9 E	115	218	6.78	39 S	22.8	5.12	94	41.6	6
7	22.0 E	119	226	7.15	62	38.3	4.91	64	27.2	7
8	22.3 E	102 S	197	6.89	51	30.4	4.80	50	20.7	8
9	19.4 E	79	135	6.58	42	23.8	4.83	57	23.8	9
10	16.9 E	72 S	105	6.38	35 S	19.3	4.89	65	27.5	10
11	15.3 E	69	91.2	6.15	44	23.4	4.87	44	17.8	11
12	14.2 E	66 S	83.4	6.05	56	29.3	4.89	54 S	23.3	12
13	13.2 E	69	78.7	5.87	52 S	26.8	4.82	39	15.6	13
14	12.5 E	70	75.8	5.88	50	25.4	4.70	37 S	15.0	14
15	11.9 E	73 S	75.1	5.87	49 S	24.0	4.80	80 S	31.8	15
16	11.3 E	75	73.2	5.89	49	23.7	5.08	108	47.2	16
17	10.8 E	71 S	66.0	5.81	48 S	23.3	5.16	104 S	46.4	17
18	10.2 E	68	59.8	5.83	51	24.8	7.27	424	266	18
19	10.3 E	95 S	84.5	5.88	53	25.6	5.81	181 S	83.2	19
20	10.8 E	114	108	5.41	50 S	23.4	5.38	106	49.3	20
21	10.0	72	62.2	5.42	44	20.6	5.15	81	36.0	21
22	9.50	86 S	68.0	5.44	40 S	18.8	5.05	88	42.8	22
23	8.95	49	38.1	5.39	48 S	21.4	5.78	161	80.1	23
24	8.83	61 S	46.5	5.21	62	27.9	5.52	130 S	62.0	24
25	8.62	70	52.1	5.07	64	28.0	4.94	85	36.3	25
26	8.38	53 S	38.4	4.98	55	23.7	4.81	67 S	26.7	26
27	7.99	47	32.4	4.97	62 S	26.6	4.44	57	21.8	27
28	7.71	46	30.6	4.99	58	26.5	4.37	64 S	24.2	28
29	7.53	42 S	27.3	5.01	54 S	23.4	4.32	88	32.8	29
30	7.20	38	23.6	4.90	56	23.7	5.03	161	70.0	30
31				8.94	953 S	818				31
TOTAL	437.55		3 420.6	186.82		1 540.8	161.34		2 004.5	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	4.48	107	41.1	2.26	11	2.15	4.67	108	42.8	1
2	4.27	82 S	30.3	2.33	10 S	2.01	4.29	73 S	27.1	2
3	4.14	71	25.4	1.89	26	4.47	4.09	51	18.0	3
4	4.00	66	22.8	1.88	35	5.89	4.44	108 S	41.4	4
5	3.91	64 S	21.6	2.12	18 S	3.30	4.84	132	55.2	5
6	4.25	83	30.5	2.19	11	2.08	4.56	108 S	42.5	6
7	4.24	62	22.7	2.37	8	1.64	4.18	62	18.7	7
8	4.47	84 S	32.4	2.84	7 S	1.72	4.59	77	30.5	8
9	5.11	135	59.6	3.15	21	5.72	7.74	221 S	148	9
10	4.81	81 S	33.7	2.82	7	1.71	6.92	87	40.1	10
11	4.68	70	28.3	2.69	4	0.93	6.78	102	59.8	11
12	4.38	65 S	25.0	2.68	4	0.93	7.40	143	91.4	12
13	4.18	54	19.4	2.68	11 S	2.55	5.24	82	44.2	13
14	4.18	51	18.4	2.87	35 S	8.68	5.34	64	29.5	14
15	4.35	53	19.9	3.38	55	19.5	4.84	55	23.4	15
16	4.22	45 S	16.4	4.49	83 S	32.2	4.53	50 S	18.6	16
17	3.97	36	12.3	3.55	24	7.36	4.32	49	18.3	17
18	3.62	32	10.6	3.32	31	8.89	4.17	53	19.1	18
19	3.57	29 S	9.20	4.68	412 S	167	4.05	57	19.9	19
20	3.57	29	8.94	3.89	133	41.3	3.93	56 S	19.0	20
21	3.42	23	6.80	3.51	43 S	13.0	3.82	53	17.5	21
22	3.38	26	7.82	3.36	41	11.9	3.79	47	15.4	22
23	3.08	22 S	5.85	3.25	51 S	14.3	3.76	42 S	13.6	23
24	2.72	17	4.00	3.32	56	16.1	3.86	51	17.0	24
25	2.43	13 S	2.73	4.23	208 S	76.4	3.88	48 S	16.1	25
26	2.48	11	2.36	4.78	484	192	3.91	53	17.9	26
27	2.37	11	2.25	4.35	132	49.6	4.21	61 S	22.2	27
28	2.11	8	1.64	4.31	71	26.4	4.00	42	14.5	28
29	1.88	8 S	1.54	4.34	72	27.0	3.92	42	14.2	29
30	1.94	10	1.88	4.51	75 S	29.2	3.77	17	5.54	30
31	2.15	12	2.23	5.97	228	118				31
TOTAL	112.72		527.24	104.18		890.43	140.82		962.54	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	3.93	38 S	9.51	6.38	35	19.2	17.3	45	67.3	1
2	3.91	36	12.2	6.19	25	13.4	18.2	57	89.8	2
3	3.77	28	9.12	6.82	33	19.4	18.5	54	86.3	3
4	3.74	27 S	8.72	8.10 A	96 S	76.5	18.1	45 S	70.4	4
5	4.05	60	21.0	18.0 E	233 S	382	17.9	43	85.8	5
6	4.42	64	24.4	21.8 A	180 S	339	15.7	40	54.3	6
7	4.04	34 S	11.8	28.5 E	140 S	321	14.0	38	43.5	7
8	4.00 E	33	11.4	28.0 E	126	305	13.0	32	35.9	8
9	4.15 E	41 S	14.7	21.7 E	114	214	12.4	30 S	32.1	9
10	4.30 E	51	18.9	19.5 E	123	207	12.0	28	29.0	10
11	4.50 E	40 S	15.6	23.8 E	138 S	284	12.5	30	32.4	11
12	5.80 E	40	20.0	27.0 E	142	331	13.7	47 S	55.6	12
13	6.60 E	102	58.2	30.0 E	121	314	13.6	42	49.4	13
14	7.00 E	58 S	35.1	25.0 E	84 S	203	13.2	38	43.3	14
15	6.60 E	51	29.1	21.5	70	130	12.4	36	38.6	15
16	6.80 E	57 S	33.5	21.1	88	126	11.6	34	34.1	16
17	6.50 E	43	24.1	22.5	95	185	11.0 B	30	28.5	17
18	7.80 E	30 S	19.7	21.9	84 S	159	10.0 B	25	21.6	18
19	9.80 E	86	85.8	20.3	63	110	9.40 B	22	17.9	19
20	11.3 E	86	93.7	20.6	70 S	125	9.00 B	28	21.8	20
21	17.0 E	187	231	18.8	71	122	8.80 B	29	21.5	21
22	18.0 E	204 S	317	19.3	80	100	8.20 B	24	17.0	22
23	17.0 E	75	110	17.8	44 S	67.7	7.90 B	26	17.7	23
24	11.5 E	86 S	85.4	15.8	38	53.2	7.70 B	28	18.6	24
25	10.8	89	84.4	14.0	34 S	41.1	7.80 B	24	15.6	25
26	8.50	80 S	48.2	13.9	32	38.4	7.84	27	17.8	26
27	8.53	64	47.3	15.5	42 S	56.2	7.50 B	109	70.6	27
28	8.14	88 S	47.8	16.6	50	71.7	7.10 B	143 S	87.7	28
29	7.83	63	41.5	15.7	45 S	54.9	6.70 B	75	43.4	29
30	7.11	53 S	32.8	17.4	42	63.1	6.60 B	53	29.8	30
31	6.67	43	24.8				6.30 B	43	23.4	31
TOTAL	234.69		1 577.65	585.57		4 540.8	355.04		1 280.7	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 02	12:24	2.0	19.2		12.0	DH59	195	314														
JAN 04	17:07	1.5	18.5		12.0	DH59	82															
JAN 09	11:30	0.1	6.82		12.0	DH59	37															
JAN 16	12:38	0.1	5.75	W	12.0	DH59	38	395														
JAN 24	17:12	0.1	5.25	W	12.0	DH59	25															
JAN 28	17:25	0.1	5.00	W	12.0	DH59	24	358														
JAN 30	17:10	0.1	4.75	W	12.0	DH59	22															
FEB 01	17:08	0.1	4.65	W	12.0	DH59	20															
FEB 10	14:55	0.1	4.30	W	12.0	DIP	51	381														
FEB 18	17:18	0.1	4.25	W	12.0	DH59	51															
FEB 20	17:07	0.1	4.20	W	12.0	DH59	50															
FEB 25	17:09	0.1	46.5		12.0	DH59	190	189														
FEB 26	17:24	1.0	50.5		12.0	DH59	368	185														
FEB 28	10:54	1.0	41.8		12.0	DH59	101															
MAR 01	17:18	2.0	28.9		12.0	DH59	110															
MAR 05	17:10	1.0	21.7		12.0	DH59	79															
MAR 08	17:11	3.0	20.8		12.0	DH59	138	315														
MAR 12	14:05	2.0	33.7		12.0	DH59	92															
MAR 14	17:19	2.5	26.6		12.0	DH59	68															
MAR 15	18:09	3.5	26.6		12.0	DH59	84	286														
MAR 16	18:02	4.5	21.6		12.0	DH59	89															
MAR 19	17:38	2.5	16.2		12.0	DH59	71															
MAR 20	08:30	2.0	15.5		12.0	DH59	77	318														
MAR 20	17:15	4.0	15.0		12.0	DH59	70															
MAR 23	17:12	5.0	12.9		12.0	DH59	72															
MAR 25	17:11	5.0	15.5		12.0	DH59	73															
MAR 28	14:45	5.0	3.83		10.0	M DH59	237															
MAR 28	14:46	5.0	3.23		12.0	M DH59	226															
MAR 28	14:47	5.0	4.04		14.0	M DH59	211	292														
MAR 28	14:48	5.0	3.61		16.0	M DH59	208															
MAR 28	14:49	5.0	4.04		18.0	M DH59	232															
MAR 28	17:23	8.0	18.7		12.0	DH59	473	293														
MAR 29	17:10	9.5	20.4		12.0	DH59	241															
APR 01	17:14	4.0	26.6		12.0	DH59	128															
APR 02	14:50	4.0	25.9		12.0	DH59	84															
APR 03	17:17	3.5	30.3		12.0	DH59	125	266														
APR 05	17:12	8.0	22.3		12.0	DH59	120															
APR 06	14:36	8.0	22.3		12.0	DH59	95															
APR 10	17:12	5.0	16.4		12.0	DH59	69															
APR 12	17:15	7.0	13.9		12.0	DH59	67	356														
APR 15	17:07	14.0	11.7		12.0	DH59	74															
APR 17	17:13	11.0	10.5		12.0	DH59	70															
APR 19	17:07	13.0	10.4		12.0	DH59	102															
APR 22	09:50	15.0	9.50		12.0	DH59	55															
APR 24	17:10	17.5	8.52		12.0	DH59	66															
APR 26	17:09	16.5	8.32		12.0	DH59	49															
APR 29	17:10	14.5	7.49		12.0	DH59	40															
MAY 01	17:23	14.0	7.08		12.0	DH59	38	354														
MAY 03	17:11	13.5	6.77		12.0	DH59	29															
MAY 06	18:35	14.0	6.87		12.0	DH59	40															
MAY 10	12:20	15.0	6.35		12.0	DH59	32	410														
MAY 13	17:12	19.5	7.9		12.0	DH59	50	331														
MAY 15	17:10	17.5	5.63		12.0	DH59	49															
MAY 17	17:10	15.5	5.64		12.0	DH59	48															
MAY 20	12:10	15.0	5.41		12.0	DH59	49															
MAY 22	17:25	16.0	5.45		12.0	DH59	40															
MAY 23	10:00	16.0	5.43		12.0	DH59	41															
MAY 27	18:50	16.5	4.97		12.0	DH59	54															
MAY 29	10:50	17.0	5.01		12.0	DH59	50	393														
MAY 31	17:10	16.5	13.4		12.0	DHSP	1640	285	13	18	35	68	90	97	99	100				3	79	18
JUN 03	17:08	18.5	5.11		12.0	DH59	88															
JUN 04	09:50	18.0	5.65		12.0	DH59	85															
JUN 05	17:20	18.0	5.27		12.0	DH59	85															
JUN 12	17:15	16.5	5.10		12.0	DH59	50															
JUN 14	10:30	15.0	4.71		12.0	DH59	33	377														
JUN 15	20:35	13.0	4.57		12.0	DH59	69															
JUN 17	17:10	17.0	5.05		12.0	DH59	80															
JUN 19	17:15	17.0	5.68		12.0	DH59	122															
JUN 24	17:10	20.0	5.50		12.0	DH59	130	456														
JUN 26	17:10	19.0	4.57		12.0	DH59	65															
JUN 28	17:10	20.0	4.59		12.0	DH59	74															
JUL 02	20:30	19.5	4.22		12.0	DH59	77															
JUL 05	17:20	22.0	3.86		12.0	DH59	59															
JUL 08	17:22	19.5	4.65		12.0	DH59	95	376														
JUL 10	17:12	21.5	4.82		12.0	DH59	71															
JUL 12	17:10	20.5	4.35		12.0	DH59	56															
JUL 16	17:40	21.0	4.18		12.0	DH59	42															
JUL 19	17:20	21.0	3.81		12.0	DH59	27															
JUL 23	19:35	19.5	2.85		12.0	DH59	21															
JUL 25	17:10	23.0	2.38		12.0	DH59	12	427														
JUL 29	17:05	22.5	2.10		12.0	DH59	9															
AUG 02	17:12		2.20		12.0	DIP	10															
AUG 05	17:40		2.18		12.0	DIP	17															
AUG 08	19:55	22.0	2.85		12.0	DIP	5															
AUG 13	12:15	22.0	2.61		12.0	DH59	5															
AUG 14	17:15	22.5	2.91		12.0	DH59	35															
AUG 16	17:25	21.0	4.22		12.0	DH59	44															
AUG 18	17:12	20.0	5.20		12.0	SURF	519	301														
AUG 21	17:22	17.5	3.45		12.0	SURF	40															
AUG 23	17:12	18.5	3.21		12.0	SURF	55															
AUG 28	17:10	18.5	5.57		12.0	SURF	680	273														
AUG 30	17:17	18.5	4.43		12.0	SURF	50															
SEP 02	17:14	20.0	4.22		12.0	SURF	71															
SEP 04	17:10	20.5	4.99		12.0	DH59	170															
SEP 06	17:17	21.5	4.41		12.0	DH59	82															
SEP 09	17:10	21.5	4.45		12.0	DH59	201	288														
SEP 16	17:15	15.0	4.49		12.0	DH59	49															
SEP 20	17:05	18.5	3.91		12.0	DH59	57															
SEP 23	17:08	18.0	3.77		12.0	DH59	41	325														
SEP 25	17:12	10.5	3.86		12.0	DH59	42															
SEP 27	17:07	15.0	4.19		12.0	DH59	54															
OCT 01	10:55	13.0	3.93		12.0	DH59	26															
OCT 04	17:10	13.5	3.73		12.0	DH59	27															

NOTE SINGLE VERTICAL LOCATED AT 12 METRES FOR 1985

DISCHARGE SYMBOL(S): W - DAILY MEAN, ICE CONDITIONS
VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

CONTINUED

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
OCT 07	10:30	10.0	4.03		12.0	DH59	33															
OCT 07	17:07	12.0	4.01		12.0	DH59	42															
OCT 09	18:22	13.0	3.86		12.0	DH59	46															
OCT 11	17:10	12.0	4.08		12.0	DH59	36															
OCT 14	15:55	12.0	5.23		12.0	DH59	57															
OCT 16	17:10	12.0	9.94		12.0	DH59	57															
OCT 18	17:07	12.5	5.46		12.0	DH59	25															
OCT 22	18:20	10.5	17.5		12.0	DH59	153	385														
OCT 24	18:20	13.5	11.6		12.0	DH59	95															
OCT 26	16:00	12.5	9.35		12.0	DH59	59															
OCT 28	17:15	8.5	8.07		12.0	DH59	66															
OCT 30	17:10	8.0	6.93		12.0	DH59	50															
NOV 04	10:20	8.0	8.68		12.0	DH59	55															
NOV 05	17:25	9.5	21.1		12.0	DH59	205	343														
NOV 06	10:30	9.0	22.4		12.0	DH59	193															
NOV 06	17:05	8.5	22.9		12.0	DH59	168	440														
NOV 07	11:45	8.0	22.6		12.0	DH59	140															
NOV 11	12:10	6.0	21.4		12.0	DH59	134															
NOV 14	17:15	7.0	23.5		12.0	DH59	86															
NOV 18	12:45	7.0	21.9		12.0	DH59	85															
NOV 20	17:10	8.5	20.7		13.0	DH59	73															
NOV 23	11:10	4.5	17.9		12.0	DH59	43															
NOV 25	12:05	4.0	13.8		12.0	DH59	34															
NOV 27	11:25	4.0	15.5		12.0	DH59	43															
NOV 29	17:10	3.5	16.6		12.0	DH59	45															
DEC 04	11:35	2.0	18.1		12.0	DH59	44															
DEC 09	11:05	2.0	12.4		12.0	DH59	30															
DEC 09	11:25	3.5	12.4		12.0	DH59	53															
DEC 12	10:25	3.5	13.8		12.0	DH59	48															
DEC 28	16:05	0.1	7.10	W	12.0	SURF	112	367														

NOTE : SINGLE VERTICAL LOCATED AT 12 METRES FOR 1985

DISCHARGE SYMBOL(S) W - DAILY MEAN, ICE CONDITIONS

BIG CREEK NEAR WALSINGHAM - STATION NO. 02GC007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	-----CCCCCCC	MANUAL	315	DEC 08	10	JUL 26	887	DEC 10	8 180	---	---	---
1967	CCCCCCCCCCCC	MANUAL	535	JUN 29	39	OCT 11	886	APR 03	24 100	65.9	65.9	---
1968	CCCCCCCCCCCC	MANUAL	961	AUG 05	16	NOV 05	1 880	FEB 04	26 300	77.4	71.7	8.0
1969	CCCCCCCCCCCC	MANUAL	496	JAN 24	2	OCT 07	2 780	FEB 01	31 900	87.4	76.9	8.1
1970	CCCCCCCCCCCC	DUAL	277	DEC 04	8	JAN 26	340	APR 03	11 700	32.2	65.7	18.3
1971	CCCCCCCCCCCC	MANUAL	315	MAR 07	2	OCT 15	688	FEB 28	13 400	36.8	59.8	18.3
1972	CCCCCCCCCCCC	MANUAL	484	MAR 01	7	FEB 24	1 520	MAR 02	20 800	56.9	59.4	15.1
1973	CCCCCCCCCCCC	MANUAL	452	MAR 05	4	OCT 12	1 180	MAR 14	22 400	61.4	59.7	12.7
1974	CCCCCCCCCCCC	MANUAL	462	MAY 12	1	SEP 25 *	1 800	JAN 28	27 900	76.5	61.8	11.1
1975	CCCCCCCCCCCC	MANUAL	533	FEB 24	8	JAN 15	855	MAR 22	22 000	60.3	61.6	9.9
1976	CCCCCCCCCCCC	MANUAL	404	FEB 16	9	SEP 23	2 760	MAR 06	26 900	74.9	63.4	9.0
1977	CCCCCCCCCCCC	MANUAL	1 630	SEP 26	12	JAN 25	3 690	SEP 26 *	33 800	92.6	66.0	8.8
1978	CCCCCCCCCCCC	MANUAL	687	MAY 13	16	FEB 27	878	MAR 22	26 600	72.8	66.6	8.0
1979	CCCCCCCCCCCC	MANUAL	347	APR 14	11	SEP 29	2 510	MAR 05	30 400	83.3	67.9	7.5
1980	CCCCCCCCCCCC	MANUAL	1 890	JUL 22	8	NOV 15	3 040	JUL 22	26 300	71.8	68.3	6.9
1981	CCCCCCCCCCCC	MANUAL	754	JUN 23	7	DEC 10	1 150	FEB 18	20 500	56.1	67.4	6.8
1982	CCCCCCCCCCCC	MANUAL	1 860	MAY 25 *	3	OCT 29	2 540	MAY 25	42 800 *	117	70.5	7.4
1983	CCCCCCCCCCCC	MANUAL	741	FEB 03	3	OCT 31	1 250	FEB 03	23 300	63.9	70.1	7.0
1984	CCCCCCCCCCCC	MANUAL	448	FEB 13	5	OCT 19	1 690	FEB 14	24 100	65.0	69.8	6.8
1985	CCCCCCCCCCCC	MANUAL	1 840	MAY 31	5	AUG 08	1 930	FEB 28	39 500	80.8	70.4	6.3

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

BIG OTTER CREEK NEAR CALTON - STATION NO. 02GC026

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 43 42 30 N LONG 80 50 20 W
DRAINAGE AREA: 876 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 182 000 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	36.0	569	1 710	3.65 B	65	20.5	27.0 E	284	663	1
2	49.5	826 S	3 530	3.63 B	58	18.2	26.3 E	261	593	2
3	34.0 B	233	684	3.61 B	55	17.2	25.5 E	223	491	3
4	15.0 B	335	435	3.59 B	56	17.4	25.0 E	208	449	4
5	8.50 B	182	133	3.56 B	55	17.0	30.0 E	201	521	5
6	7.00 B	88	53.2	3.56 B	56	17.2	33.5 E	198	573	6
7	6.40 B	86	36.5	3.53 B	54	16.5	32.5 E	204	573	7
8	5.80 B	50	24.2	3.50 B	50	15.1	60.0 E	401	2 080	8
9	4.98 B	38 S	16.4	3.50 B	49	14.8	72.0 E	1 850	11 500	9
10	4.65 B	51	20.5	3.55 B	45	13.8	64.0 E	523	2 890	10
11	4.50 B	51	19.8	3.66 B	45	14.3	50.0 E	285	1 370	11
12	4.30 B	40	14.9	3.78 B	57	18.5	66.5 A	1 150 S	6 810	12
13	4.25 B	36	13.2	3.90 B	62	31.0	67.0	714	4 130	13
14	4.10 B	36	12.8	4.25 B	93	34.1	46.8	152 S	842	14
15	4.05 B	34	11.9	4.10 B	74	26.2	37.5	100	324	15
16	3.97 B	29	9.85	4.00 B	63	21.8	30.0	91	236	16
17	3.95 B	33	11.3	3.90 B	60	20.2	26.0	342 S	768	17
18	3.93 B	42	14.3	3.83 B	59 S	19.5	22.0	484	920	18
19	3.90 B	31	10.4	3.75 B	58	18.1	17.9	386	597	19
20	3.93 B	26	8.49	3.70 B	52	16.6	15.5	355 S	475	20
21	3.97 B	50	17.2	3.70 B	61	19.5	14.8	342	437	21
22	4.00 B	88	30.4	6.00 B	188	87.1	13.9	323	388	22
23	4.00 B	99	34.2	46.1	208	828	13.5	305 S	358	23
24	3.97 B	84	30.2	120	238	2 470	17.5	524 S	787	24
25	3.93 B	77	26.1	184	418 S	5 920	21.7	496 S	930	25
26	3.90 B	75	25.3	152	492 S	6 460	19.5	257 S	433	26
27	3.80 B	76	24.6	104	328 S	2 950	19.4	286 S	489	27
28	3.77 B	71	23.1	39.0 E	286	964	34.8 A	2 050 S	6 160	28
29	3.75 B	71 S	23.0				59.2 A	1 380 S	5 880	29
30	3.70 B	69	22.1				45.4 E	706 S	2 780	30
31	3.67 B	68	21.6				38.5 E	662	2 260	31
TOTAL	258.97		7 047.64	709.39		20 086.7	1 086.5		58 407	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	71.5 E	1 630 S	10 100	6.37 E	154	84.8	10.7	255	236	1
2	69.1 A	814 S	4 860	6.22 E	130	69.9	7.53	171	111	2
3	45.9 E	571 S	2 260	6.00 E	121	62.7	5.87	128	64.9	3
4	44.9 E	220 S	853	5.93 E	114	58.4	4.81	108	48.2	4
5	39.2 E	111	376	5.93 E	108	55.3	4.53	104	40.7	5
6	41.8 E	193	697	6.38 E	121	66.7	4.25	100	36.7	6
7	42.6 E	397	1 460	6.52 E	113	63.7	4.01	101	35.0	7
8	32.3 E	251	728	6.23 E	96	51.7	3.85	96	31.9	8
9	23.4 E	209	423	5.32 A	85 S	39.1	3.95	90	30.7	9
10	18.4 E	189	300	5.16 E	76	33.9	4.07	85	29.9	10
11	16.3 E	181	255	4.95 E	68	29.1	3.95	91	31.1	11
12	14.8 E	175	224	4.77 E	83	26.0	4.33	106	39.7	12
13	13.3 E	171	186	4.61 E	64	25.5	4.10	95	33.7	13
14	12.3 E	163	173	4.44 E	64	24.6	3.64	88 S	29.2	14
15	11.4 E	150	148	4.31 E	62	23.1	3.78	88	28.6	15
16	10.3 E	139	124	4.08 E	59	20.8	4.26	102	37.5	16
17	9.38 E	126	102	4.05 E	58	20.3	4.88	142	87.4	17
18	8.83 E	126	97.2	4.13 E	60	21.4	7.85	274	181	18
19	8.83 E	133	99.2	4.26 E	68	25.0	5.54	119	87.0	19
20	9.32 E	160	121	4.28 E	77	28.5	4.90	88	41.5	20
21	8.53 E	118	87.0	5.05 E	103	44.9	4.61	92	36.8	21
22	8.13 A	104 S	73.1	4.61	83 S	33.1	4.52	95	37.1	22
23	7.87 E	86	63.6	4.27	82	30.3	5.27	130	58.3	23
24	7.21 E	106	66.0	4.09	79	27.9	5.08	135	59.3	24
25	7.63 E	132	87.0	3.91	78	26.4	4.36	112	42.2	25
26	7.24 E	134	77.6	3.78	76	24.9	4.08	97	34.2	26
27	6.73 E	133	70.9	3.86	76	26.0	3.79	91	29.8	27
28	6.53 E	166	93.7	4.04	82	28.6	3.44	70	20.8	28
29	6.13 E	140	74.1	3.82	74	25.1	3.44	66	19.5	29
30	5.86 A	135 S	69.5	3.76	107	34.8	4.31	147	54.7	30
31				13.4	553	640				31
TOTAL	615.50		24 358.9	158.63		1 772.5	143.58		1 583.2	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

BIG OTTER CREEK NEAR CALTON - STATION NO. 02SC026

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	3.80	92	30.2	1.84	52	7.37	5.82	78	39.7	1
2	3.70	95	30.7	1.80	44	6.84	5.28	86	30.2	2
3	3.47	92	27.6	1.85	54	7.70	4.72	56	22.8	3
4	3.21	84	23.3	1.85	58	7.77	4.77	63	26.0	4
5	3.80	205	67.3	1.56	48	6.60	4.83	63	26.3	5
6	5.23	319	144	1.80	49	6.77	4.77	50	20.6	6
7	3.78	232 S	75.8	1.84	56	8.80	4.36	45	17.0	7
8	4.48	258	98.9	1.87	55	8.89	5.80	179	91.2	8
9	8.04	399	312	1.87	56	9.05	28.8	578 S	1 440	9
10	6.25	150	81.0	2.03	58	10.2	18.7	188	271	10
11	5.66	135	65.0	1.94	55	9.22	11.0	87	82.2	11
12	4.65	102	41.0	1.83	54	8.54	7.89	77	52.5	12
13	4.05	95	33.2	1.84	52 S	8.27	5.42	86	36.8	13
14	4.06	115	40.3	2.00	62	10.7	5.63	59	28.7	14
15	4.38	131	49.6	4.59	142	56.3	5.10	56	24.7	15
16	4.95	159	68.0	8.75	247	166	4.71	53	21.8	16
17	4.88	137	57.8	6.99	185	112	4.42	52	19.9	17
18	4.63	127	50.8	4.56	106	41.8	4.19	51	18.5	18
19	4.23	115	42.0	5.01	143	61.5	4.02	47	16.3	19
20	4.28	125	46.2	3.81	97	31.9	3.66	44	13.9	20
21	4.53	152	59.5	3.40	80	23.5	3.47	42	12.6	21
22	4.33	153	57.2	3.16	73	19.9	3.32	41	11.8	22
23	3.79	144	47.2	3.06	83	16.7	3.29	44	12.5	23
24	3.44	142 S	42.2	3.24	70	19.6	3.67	56	17.8	24
25	3.24	128	35.8	5.84	130	85.6	3.71	54	17.3	25
26	3.33	128	36.8	9.92	363	311	3.87	56	17.6	26
27	3.20	171	47.3	11.2	271	262	4.04	75	26.2	27
28	1.78	62	9.54	6.93	164	127	3.83	70	23.2	28
29	1.58	46	6.32	6.46	88	36.5	3.53	55	16.8	29
30	1.57	47	6.38	9.19	220	175	3.46	50	14.9	30
31	1.58	52	7.14	6.31	138	99.1				31
TOTAL	124.92		1 742.08	129.25		1 722.42	181.00		2 480.7	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	3.81	62	20.4	4.75	107	44.0	20.7	189	338	1
2	3.80	61	20.0	4.44	99	38.0	31.2	531	1 430	2
3	3.53	58	18.0	5.91	186	84.8	33.5	416	1 200	3
4	3.62	62	19.4	15.8	881 S	948	24.0	237	491	4
5	3.78	64	20.9	53.7	1 670	7 750	17.2	167	248	5
6	3.81	65	21.4	85.0	955 S	5 380	15.5	148	199	6
7	3.18	50 S	13.7	45.4	828 S	2 470	14.5	147	185	7
8	3.16	51	13.9	30.9	856	1 750	13.8	140	167	8
9	3.11	49	13.2	23.4	787 S	1 590	12.8	130 S	144	9
10	3.45	48	14.3	40.6	889 S	3 050	13.1	141	160	10
11	3.45	42	12.5	61.8	975	5 210	16.4	195	278	11
12	3.70	56	17.9	47.8	825	3 410	18.8	192	312	12
13	6.89	118	70.2	35.7	704	2 170	17.5	141	213	13
14	11.2	243	235	37.2	715	2 300	16.1	115	160	14
15	9.67	173	145	36.4	518	1 620	13.4	92	107	15
16	7.85	117	79.4	32.9	461	1 310	12.5	86	93.6	16
17	6.89	84	50.0	43.4	840	2 400	11.7	73	73.8	17
18	5.68	86	33.5	37.0	441	1 410	11.0 B	78	74.1	18
19	12 S	194	210	34.6	384	1 150	10 4 B	97	87.2	19
20	30.6	757	2 590	35.3	381	1 190	9.80 B	103	85.4	20
21	35.5	384	1 120	30.0	292	757	9.30 B	87	69.9	21
22	20.0	185	285	23.0	223	424	8.70 B	80	60.1	22
23	12.5	118	125	18.2	181	285	8.40 B	78	56.8	23
24	12.1	170	178	16.2	154	216	8.50 B	78	55.6	24
25	14.3	213	263	14.6	132	167	8.80 B	89	51.3	25
26	12.4	185	198	14.8	187	214	8.30 B	63	45.2	26
27	9.34	151 S	122	24.9	412	886	7.90 B	58	38.2	27
28	7.34	126	78.8	30.1	290	754	7.30 B	48	30.3	28
29	6.11	112	59.1	25.5	187	412	6.80 B	41	24.4	29
30	5.44	107	50.3	21.8	155	292	6.50 B	41	23.0	30
31	5.11	110	48.6				6.30 B	39	21.2	31
TOTAL	283.08		5 147.6	911.21		49 862.8	420.70		5 522.1	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

BIG OTTER CREEK NEAR CALTON - STATION NO. 02EC026

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE SAMPLING VERTICAL		TYPE OF SAMPLER	INSTANT. CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES										PERCENT		
									.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND	SILT	CLAY
		(C)	(m³/s)	(m)			(mg/L)	(mg/L)														
JAN 02	11:30	3.0	49.6	35.0		DH59	869	346														
JAN 09	09:55	0.1	4.98	35.0		DH48	38	383														
JAN 29	10:05	0.1	3.75	35.0		DH48	70	389														
FEB 18	11:00	0.1	3.83	35.0		DH48	58	354														
FEB 25	13:40	0.1	186	35.0		DH59	408	159														
FEB 26	17:00	0.1	145	35.0		DH59	450															
FEB 27	13:00	0.1	104	35.0		DH59	310	207														
MAR 12	13:00	0.1	55.4	35.0		DH59	1000	242														
MAR 14	14:30		49.1	35.0		DH59	129															
MAR 17	10:30		26.0	35.0		DH59	237	284														
MAR 20	09:00	3.0	15.2	35.0		DH59	367															
MAR 23	20:51	0.1	13.7	35.0		PWS	337															
MAR 24	07:35	0.1	15.5	35.0		PWS	377															
MAR 24	10:14	0.1	15.8	35.0		DH59	411	281														
MAR 24	12:36	0.1	16.7	35.0		DH59	452	308														
MAR 24	13:31	0.1	17.0	35.0		PWS	378	295														
MAR 24	13:52	0.1	17.2	35.0		DH59	478	352														
MAR 24	15:21	0.1	17.6	35.0		DH59	484	337														
MAR 24	15:29	0.1	17.6	35.0		PWS	503	295														
MAR 25	14:15	0.1	21.4	35.0		DH59	388	343														
MAR 25	14:42	0.1	21.4	35.0		DH59	415	323														
MAR 25	15:17	0.1	21.2	35.0		DH59	376	332														
MAR 25	15:43	0.1	21.2	35.0		DH59	400	348														
MAR 26	01:00	0.1	20.1	35.0		PWS	348	229														
MAR 26	07:00	0.1	20.1	35.0		PWS	280	304														
MAR 27	14:42		18.7	35.0		DH59	285															
MAR 27	15:07		3.85	25.0	M	DH59	270	281														
MAR 27	15:20		3.13	30.0	M	DH59	212	295														
MAR 27	15:28		4.61	34.0	M	DH59	272	315														
MAR 27	15:45		5.25	38.0	M	DH59	288	307														
MAR 27	15:55		2.87	41.0	M	DH59	257	279														
MAR 27	16:21		18.3	35.0		DH59	348	319														
MAR 27	23:00		22.1	35.0		PWS	678	321														
MAR 28	08:00		27.8	35.0		PWS	844	360														
MAR 28	09:41		28.5	35.0		DH59	2470	315	15	24	32	48	67	78	91	99	100			22	54	24
MAR 28	10:57		30.5	35.0		DH59	1810	310														
MAR 28	11:05		30.8	35.0		PWS	1570	345														
MAR 28	12:00	4.0	8.35	26.0	M	DH59	1770															
MAR 28	12:01	4.0	9.48	31.0	M	DH59	1710															
MAR 28	12:02	4.0	5.92	35.0	M	DH59	1880	291														
MAR 28	12:03	4.0	7.21	38.0	M	DH59	1780															
MAR 28	12:04	4.0	3.87	41.0	M	DH59	1780															
MAR 28	13:13		34.5	35.0		DH59	1960	318														
MAR 28	13:52		36.8	35.0		DH59	2590	316														
MAR 28	14:34		37.8	35.0		DH59	3780	297														
MAR 28	15:23		39.6	35.0		PWS	4630	285														
MAR 28	15:28		39.9	35.0		DH59	3900	310	29	34	51	58	78	85	95	99	100			15	51	34
MAR 28	16:16		42.5	35.0		DH59	3830	290														
MAR 28	17:04		45.3	35.0		DH59	3770	285														
MAR 29	09:39	5.5	55.3	35.0		DH59	1380	294														
MAR 29	10:12		56.5	35.0		DH59	1250	290														
MAR 29	10:29		56.5	35.0		DH59	1280	298	21	26	35	38	49	61	80	97	100			39	35	26
MAR 29	11:12		56.9	35.0		DH59	1280	304														
MAR 29	12:05		57.6	35.0		DH59	1260	295														
MAR 29	12:43		57.6	35.0		DH59	1330	288														
MAR 29	12:50	5.5	13.3	26.0	M	DH59	1340	283														
MAR 29	12:51	5.5	15.2	30.0	M	DH59	1290	284														
MAR 29	12:52	5.5	12.3	35.0	M	DH59	1640	269														
MAR 29	12:53	5.5	8.60	38.0	M	DH59	1460	267														
MAR 29	12:54	5.5	9.86	41.0	M	DH59	1320	277														
MAR 29	14:27		58.1	35.0		DH59	1340	294														
MAR 29	15:48		58.4	35.0		DH59	1380	306														
MAR 29	16:50		58.1	35.0		DH59	1350	297	28	32	42	48	64	85	81	97	100			35	33	32
MAR 30	09:47		58.8	35.0		DH59	784	307														
MAR 30	10:22		58.9	35.0		DH59	753	304														
MAR 30	10:53		59.1	35.0		DH59	748	314														
MAR 30	11:35		59.1	35.0		DH59	753	312														
MAR 30	12:19		59.4	35.0		DH59	784	316														
MAR 30	12:33		59.5	35.0		DH59	757	294	12	14	22	25	34	44	88	94	100			58	30	14
MAR 30	13:21		59.5	35.0		DH59	864	312														
APR 01	09:53		59.1	35.0		DH59	1890	266	25	28	38	48	59	70	83	97	100			30	42	28
APR 01	10:48		59.4	35.0		DH59	1540	271														
APR 01	11:57		59.5	35.0		DH59	1490	263	16	22	36	42	53	84	79	96	100			38	42	22
APR 01	13:29		59.6	35.0		DH59	1320	249														
APR 01	14:08		70.1	35.0		DH59	1290	237														
APR 01	15:55		70.2	35.0		DH59	1180	289														
APR 01	16:23		70.2	35.0		DH59	1260	267														
APR 01	17:09		70.1	35.0		DH59	1240	282														
APR 02	09:43		72.0	35.0		DH59	806	276														
APR 02	10:41	4.0	70.9	35.0		DH59	926															
APR 02	11:52		68.7	35.0		DH59	780															
APR 02	12:07		68.7	35.0		DH59	703	281	12	15	26	29	38	50	87	94	100			50	35	15
APR 02	13:00	4.0	18.6	27.0	M	DH59	853	239														
APR 02	13:01	4.0	17.4	31.0	M	DH59	859	241														
APR 02	13:02	4.0	10.1	35.0	M	DH59	792	243														
APR 02	13:03	4.0	9.78	38.0	M	DH59	795	245														
APR 02	13:04	4.0	13.2	41.0	M	DH59	712	248														
APR 02	13:38		68.2	35.0		DH59	780															
APR 02	14:14		68.0	35.0		DH59	762															
APR 03	11:45	5.0	41.4	35.0		DH59	884	242														
APR 04	17:00	5.0	45.7	35.0		DH59	202															
APR 22	10:40	16.0	8.13	35.0		DH59	104	284														
APR 30	09:25	12.5	8.04	35.0		DH48	126															
MAY 08	08:30	16.0	5.37	35.0		DH59	92	295														
MAY 08	08:45	16.0	5.37	35.0		DH48	86															
MAY 22	07:45	11.0	4.66	35.0		DH48	83															
JUN 14	10:00	13.0	3.88	35.0		DH48	89	374														
JUL 07	15:00	15.0	3.76	35.0		DH59	223	373														
JUL 24	19:00		3.31	35.0		DH59	133															
AUG 13	10:40	23.0	1.87	35.0		DH48	51															
SEP 09	17:30	13.0	16.8	35.0		DH59	417	310														
OCT 07	08:15	10.0	3.14	35.0		DH48	50															
OCT 27	17:30	12.0	9.24	35.0		DH59	144															

NOTE - SINGLE VERTICAL LOCATED AT 34.0 METRES FOR 1985

VERTICAL SYMBOL(S) M - A SEDIMENT MEASUREMENT VERTICAL

CONTINUED

BIG OTTER CREEK NEAR CALTON - STATION NO. 02CC026 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
NOV 04	08:30	8.0	15.0	35.0	DH59	587															
NOV 06	09:50	7.0	58.1	35.0	DH59	940	347														
NOV 07	11:00	7.5	44.2	35.0	DH59	619	341														
NOV 09	12:30	6.0	48.6	35.0	DH59	803															
NOV 10	08:30	6.0	41.8	35.0	DH59	846	345														
DEC 09	09:55	3.0	12.5	35.0	DH59	128															

NOTE : SINGLE VERTICAL LOCATED AT 34.0 METRES FOR 1985

BIG OTTER CREEK NEAR CALTON - STATION NO. 02CC026

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)				MINIMUM (mg/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)				TOTAL FOR PERIOD (TONNES)		SUMMARY JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	-------CCCCC	MANUAL	845	AUG	25		62	OCT	08		3 470	DEC	18		35 500		---	---	---
1976	CCCCCCCCCCCC	MANUAL	1 850	MAR	05		11	OCT	12	*	9 610	MAR	05		129 000		354	354	---
1977	CCCCCCCCCCCC	MANUAL	2 520	SEP	28		23	FEB	22		14 200	SEP	27		177 000		484	419	15.5
1978	CCCCCCCCCCCC	MANUAL	2 800	SEP	15		38	NOV	10		8 340	MAR	23		108 000		297	378	14.6
1979	CCCCCCCCCCCC	MANUAL	3 300	APR	14		54	SEP	27		34 100	APR	15	*	187 000		513	412	12.5
1980	CCCCCCCCCCCC	MANUAL	2 850	SEP	14		46	NOV	20		19 400	MAR	22		195 000		532	436	10.7
1981	CCCCCCCCCCCC	MANUAL	1 330	OCT	01		37	FEB	10		8 110	FEB	24		114 000		313	416	10.4
1982	CCCCCCCCCCCC	MANUAL	2 410	MAY	29		19	OCT	05		12 600	APR	01		258 000	*	707	457	12.1
1983	CCCCCCCCCCCC	MANUAL	5 130	AUG	12		22	MAY	17		30 800	AUG	12		237 000		648	481	11.1
1984	CCCCCCCCCCCC	MANUAL	8 170	SEP	26	*	28	OCT	11		17 700	MAY	23		199 000		545	488	9.8
1985	CCCCCCCCCCCC	MANUAL	4 630	MAR	28		38	JAN	09		11 500	MAR	09		182 000		497	489	8.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

BLACK RIVER NEAR MARATHON - STATION NO. 02BB002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 25	18:56	5.0	219	21.0	D49	647	167														
JUL 30	15:40	17.0	35.5	21.0	D49	84	201														
OCT 21	10:37	7.5	40.2	21.0	D49	12	239														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

BLACK RIVER NEAR MARATHON - STATION NO. 02BB002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)				MINIMUM (mg/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---P--P--P--	MANUAL	647	APR	25	*	12	OCT	21	*	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CATFISH CREEK NEAR SPARTA - STATION NO. 02GC018

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 11	11:00	5.0	3.38	MID	DH59	41	367														
MAY 07	15:15	15.0	0.770	MID	DH48	18	386														
JUN 05	14:00	17.0	0.425	MID	DH48	38	444														
JUN 26	12:00	18.0	0.666	MID	DH48	62	435														
JUL 31	12:30	23.0	0.138	MID	DH48	55	373														
AUG 29	10:00	20.0	1.38	MID	DH48	155	391														
OCT 01	13:45	15.0	0.277	MID	DH48	39	331														
OCT 30	14:30	8.0	1.21	MID	DH48	52	414														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

CATFISH CREEK NEAR SPARTA - STATION NO. 02GC018

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPPPP-P--	MANUAL	155	AUG 29 *	18	MAY 07 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CONESTAGO RIVER ABOVE DRAYTON - STATION NO. 02GA039

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 15	12:55	0.5	12.0	20.0	DH59	23	272														
APR 05	20:50	1.0	187	20.0	D49	671	160														
MAY 14	15:20	22.0	0.382	20.0	SURF	8	334														
AUG 02	14:50	23.0	0.355	20.0	DH48	20	225														
NOV 19	15:35	5.0	14.0	20.0	DH59	35	358														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

CONESTAGO RIVER ABOVE DRAYTON - STATION NO. 02GA039

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	--PPP--P--P-	MANUAL	671	APR 05 *	8	MAY 14 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)		DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 07	13:30	0.1		MID		DIP	5																
JAN 09	14:45	0.1		MID		DIP	20																
JAN 11	10:57	0.1		MID		DIP	8		444														
JAN 14	11:15	0.1		MID		DIP	7																
JAN 28	08:30	0.1		MID		DH48	25		422														
JAN 31	14:20	0.1		MID		DH48	23																
FEB 01	11:15	0.1		MID		DH48	23																
FEB 04	11:30	0.1		MID		DIP	21		412														
FEB 06	13:08	0.1		MID		DIP	15																
FEB 08	12:30	0.1		MID		DIP	11																
FEB 13	14:00	0.1		MID		DIP	18																
FEB 15	13:50	0.1		MID		DIP	15		600														
FEB 18	08:30	0.1		MID		DH48	6																
FEB 20	08:30	0.1		MID		DH48	8																
FEB 20	11:25	0.1	5.32	MID		DH48	10		520														
FEB 22	09:00	0.1		MID		DH48	95																
FEB 25	08:30	0.1		MID		DH48	250		216														
FEB 25	13:15	0.1		MID		DH48	267																
FEB 25	16:00	0.1		MID		DH48	273																
FEB 26	09:30	0.1		MID		DH48	103																
FEB 26	11:45	0.1		MID		DH48	110																
FEB 26	15:10	0.1		MID		SURF	1890		257														
FEB 27	09:30	0.1		MID		DH48	86																
FEB 27	13:30	0.1	45.8	MID		DH48	86																
FEB 27	17:35	0.1		MID		DH48	143		320														
FEB 28	09:30	0.1		MID		SURF	51																
FEB 28	12:45	0.1		MID		DH48	50																
FEB 28	17:30	0.1		MID		DH48	152		326														
MAR 01	11:30	0.1		MID		DH48	44																
MAR 01	16:00	0.1		MID		DH48	89																
MAR 02	12:00	0.1		MID		DH48	134		325														
MAR 03	16:00	0.1		MID		DH48	71																
MAR 05	16:30	0.1		MID		SURF	58																
MAR 06	14:30	0.1		MID		DH48	71																
MAR 08	11:00	0.1		MID		DH48	46																
MAR 10	09:30	0.1		MID		DH48	86																
MAR 12	15:30	0.1		MID		DH48	424		256														
MAR 13	11:05	0.1	5.64		2.5 M	DH59	118																
MAR 13	11:15	0.1	11.2		5.5 M	DH59	116																
MAR 13	11:30	0.1	11.1		10.0 M	DH59	119																
MAR 13	11:45	0.1	8.18		17.5 M	DH59	113		275														
MAR 13	12:10	0.1	4.97		29.5 M	DH59	151																
MAR 14	14:30	2.0		MID		DH48	86		288														
MAR 15	10:50	1.0		MID		DH48	89		271														
MAR 18	15:45	1.0		MID		DH48	24																
MAR 20	09:00	1.0		MID		DH48	37																
MAR 22	08:20	1.0		MID		DH48	21																
MAR 25	13:15	3.0		MID		DH48	17		332														
MAR 27	11:20	4.0		MID		DH48	32																
MAR 28	17:30	4.0		MID		DH48	1480		242														
MAR 29	09:00	2.0		MID		DH48	352																
APR 01	14:15	3.0		MID		DH48	111																
APR 03	13:20	2.0		MID		DH48	33																
APR 05	14:00	5.0		MID		DH48	690		245														
APR 08	13:20	4.0		MID		DH48	61																
APR 12	10:00	8.0		MID		DH48	22																
APR 15	11:20	11.0		MID		DH48	14																
APR 18	17:10	10.0		MID		DH48	8																
APR 19	15:10	10.0		MID		DH48	14																
APR 22	12:00	16.0		MID		DH48	16		300														
APR 24	08:30	14.0		MID		DH48	16																
APR 26	15:20	14.0		MID		DH48	16																
APR 29	19:00	15.0		MID		DH48	15																
MAY 01	17:40	15.0		MID		DH48	13		352														
MAY 03	12:34	13.0		MID		DH48	18																
MAY 08	14:05	14.0	10.4	MID		DH48	18																
MAY 08	15:30	15.0		MID		DH48	21																
MAY 10	15:30	18.0		MID		DH48	23																
MAY 17	07:30	15.0		MID		DH48	3																
MAY 22	07:30	12.0		MID		DH48	57																
MAY 24	07:30	15.0		MID		DH48	56																
MAY 29	20:30	12.0		MID		DH48	58		329														
MAY 31	08:00	15.0		MID		DH48	64																
JUN 04	20:30	17.0		MID		DH48	18																
JUN 05	07:30	15.0		MID		DH48	40	A															
JUN 07	07:30	15.0		MID		DH48	22																
JUN 10	07:30	17.0		MID		DH48	32																
JUN 12	07:30	14.0		MID		DH48	44																
JUN 14	19:00	15.0		MID		DH48	47		378														
JUN 19	19:00	20.0		MID		DH48	55																
JUN 24	15:30	22.0		MID		DH48	72		410														
JUN 26	18:00	24.0		MID		DH48	27																
JUN 28	14:30	24.0		MID		DH48	30																
JUL 03	07:30	19.0		MID		DH48	254		433														
JUL 05	07:30	21.0		MID		DH48	38																
JUL 08	07:30	18.0		MID		DH48	33																
JUL 11	07:30	18.0		MID		DH48	18																
JUL 19	07:30	20.0		MID		DH48	36		380														
JUL 22	07:10	18.0		MID		DH48	18																
JUL 24	07:30	18.0		MID		DH48	8																
JUL 29	07:30	20.0		MID		DH48	3																
JUL 31	07:30	20.0		MID		DH48	3																
AUG 02	07:30	18.0		MID		DH48	8		394														
AUG 06	07:30	20.0		MID		DH48	4																
AUG 09	07:30	20.0		MID		DH48	27																
AUG 12	07:30	18.0		MID		DH48	7																
AUG 13	08:30	19.0	3.67	MID		DH48	12																
AUG 14	07:30	21.0		MID		DH48	29																
AUG 16	07:30	18.0		MID		DH48	85																
AUG 19	07:30	19.0		MID		DH48	254		343														
AUG 21	07:30	18.0		MID		DH48	53																
AUG 23	07:30	17.0		MID		DH48	23																
AUG 26	07:30	18.0		MID		DH48	105																

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

CONCENTRATION SYMBOL(S): A - CLASSIFIED AS AN ANOMALY
VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

CONTINUED

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
AUG 28	07:30	18.0		MID	DH48	132															
AUG 30	16:30	17.0		MID	DH48	487	307														
SEP 09	07:30	21.0		MID	DH48	85															
SEP 11	07:30	14.0		MID	DH48	83															
SEP 16	07:30	12.0		MID	DH48	26															
SEP 18	07:30	14.0	4.87	MID	DH48	11															
SEP 20	07:30	18.0		MID	DH48	4															
SEP 23	07:30	18.0		MID	DH48	4															
SEP 25	07:30	13.0		MID	DH48	3															
SEP 27	07:30	14.0	4.03	MID	DH48	34															
SEP 30	07:30	13.0		MID	DH48	4															
OCT 02	07:30	11.0		MID	DH48	5	374														
OCT 04	07:30	10.0		MID	DH48	6															
OCT 07	07:30	8.0		MID	DH48	17															
OCT 09	07:30	12.0		MID	DH48	27															
OCT 11	07:30	10.0		MID	DH48	26															
OCT 16	07:00	10.0		MID	DH48	29	450														
OCT 18	07:30	9.0		MID	DH48	6															
OCT 21	07:15	7.0		MID	DH48	15															
OCT 23	07:30	10.0		MID	DH48	10															
OCT 25	07:30	10.0		MID	DH48	16	443														
OCT 28	08:30	6.0		MID	DH48	5															
OCT 30	08:30	5.0		MID	DH48	25															
NOV 01	08:30	7.0		MID	DH48	12															
NOV 04	08:30	9.0		MID	DH48	351	351														
NOV 06	08:30	8.0		MID	DH48	74															
NOV 08	08:30	5.0		MID	DH48	28															
NOV 11	08:30	3.0		MID	DH48	46															
NOV 13	08:30	4.0		MID	DH48	118															
NOV 15	08:30	3.0		MID	DH48	100	313														
NOV 18	08:30	4.0		MID	DH48	39															
NOV 20	08:30	8.0		MID	DH48	68															
NOV 22	08:30	2.0		MID	DH48	10															
NOV 25	08:30	1.0		MID	DH48	11															
NOV 27	08:30	1.0		MID	DH48	29															
NOV 29	08:30	2.0		MID	DH48	16															
DEC 02	08:30	2.0		MID	DH48	23															
DEC 04	08:30	0.1		MID	DH48	20															
DEC 09	08:30	1.0		MID	DH48	225 A															
DEC 09	08:31	1.0	10.2	MID	DH48	16	361														
DEC 11	08:30	2.0		MID	DH48	16															
DEC 13	08:30	0.1		MID	DH48	16	554														
DEC 16	08:50	0.1		MID	SURF	7															
DEC 18	12:50	0.1		MID	SURF	15															
DEC 20	12:55	0.1		MID	SURF	13															
DEC 23	08:30	0.1		MID	DH48	7															

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

CONCENTRATION SYMBOL(S) A - CLASSIFIED AS AN ANOMALY

CREDIT RIVER AT ERINDALE - STATION NO. 02HB002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)			SAMPLED CONCENTRATION MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1973	-------CCCCC	DUAL	260	NOV 15		1	OCT 08		353	OCT 30		3 400	---	---	---
1974	CCCCCCCCCCCC	DUAL	3 030	MAY 17	*	1	SEP 05		88 200	MAY 17	*	133 000	* 363	363	---
1975	CCCCCCCCCCCC	MANUAL	1 920	APR 19		1	JAN 06		30 200	APR 19		70 100	192	278	30.8
1976	CCCCCCCCCCCC	MANUAL	1 030	MAR 20		3	JUL 19		14 100	MAR 20		53 600	146	234	28.2
1977	CCCCCCCCCCCC	MANUAL	893	MAR 13		4	MAY 16		12 700	MAR 13		45 800	125	207	26.1
1978	CCCCCCCCCCCC	MANUAL	918	APR 01		3	OCT 02		5 540	APR 01		28 700	78.7	181	27.1
1979	CCCCCCCCCCCC	MANUAL	717	DEC 24		1	SEP 22		8 460	DEC 25		45 500	127	172	23.9
1980	CCCCCCCCCCCC	MANUAL	1 270	MAR 21		3	OCT 15		6 690	MAR 21		30 900	84.5	159	23.2
1981	CCCCCCCCCCCC	MANUAL	824	SEP 04		1	SEP 18		6 370	FEB 19		38 700	106	153	21.3
1982	CCCCCCCCCCCC	MANUAL	1 770	MAR 31		1	JAN 11		15 800	MAR 31		50 400	138	151	19.1
1983	CCCCCCCCCCCC	MANUAL	328	DEC 12		1	APR 22		1 870	FEB 03		22 100	60.4	142	19.2
1984	CCCCCCCCCCCC	MANUAL	745	APR 05		0	JAN 18	*	---	---		---	---	---	---
1985	CCCCCCCCCCCC	MANUAL	1 890	FEB 28		3	MAY 17		---	---		---	---	---	---

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

DON RIVER AT TODMORDEN - STATION NO. 02HC024

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 43 41 50 N LONG 79 21 15 W
DRAINAGE AREA: 316 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 9 770 TONNES FOR THE PERIOD SEP 19 TO DEC 31

REMARKS:

SEP				OCT			NOV			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	5.35			3.84	78	25.9	1.72	8	1.19	1
2	3.61			1.95	35	6.19	2.89	45	11.5	2
3	2.44			1.70	29	4.26	20.2	388 S	842	3
4	2.26			1.73	38	5.68	52.4	640 S	2 900	4
5	7.68			2.84	85	15.9	17.4	329 S	495	5
6	7.00			1.75	43	6.50	10.7	200 S	185	6
7	3.25			1.62	40	5.60	10.3	244 S	217	7
8	6.90			1.55	36	4.82	4.27	173 S	63.8	8
9	2.85			6.33	153	83.7	8.16	312 S	247	9
10	11.4			2.84	63	15.5	18.1	469 S	733	10
11	3.15			2.04	29	5.11	6.65	184 S	86.5	11
12	2.62			5.26	122	55.4	7.42	177 S	113	12
13	2.13			6.35	140	101	16.9	524 S	765	13
14	1.93			2.89	45	11.2	15.6	315 S	425	14
15	1.77			3.63	85	26.7	8.22	194 S	138	15
16	1.73			2.23	39	7.51	12.6	188 S	206	16
17	1.66			1.88	25	4.06	7.45	212 S	136	17
18	1.61			2.54	64	14.0	8.75	174 S	132	18
19	1.64	11 S	1.55	11.1	193	185	12.1	301 S	315	19
20	1.57	12	1.63	3.21	82	17.2	10.1	239 S	209	20
21	1.49	12	1.54	2.51	51	11.1	5.15	111 S	49.4	21
22	1.46	13	1.64	2.10	40	7.26	4.29	82 S	30.4	22
23	1.57	17	2.31	1.99	39	6.71	4.91	92 S	39.0	23
24	5.43	111	52.1	6.98	157 S	94.7	4.01	87 S	30.1	24
25	2.04	29	5.11	3.11	43 S	11.6	3.33	49 S	14.1	25
26	8.38	177	128	2.10	24 S	4.35	3.75	44 S	14.3	26
27	4.20	81	29.4	1.83	16 S	2.53	3.87	48	16.0	27
28	2.17	39	7.31	1.85	10 S	1.43	3.62	41	12.9	28
29	1.83	32	5.06	1.85	8 S	1.14	3.29	39	11.1	29
30	1.75	34	5.14	1.67	4 S	0.58	5.20	73	32.8	30
31				1.89	4	0.58				31
TOTAL	102.75		240.80	86.60		743.21	294.40		8 281.09	TOTAL

DEC										
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	9.39	128	104							1
2	10.8	124	116							2
3	4.48	66	25.5							3
4	4.85	79	33.1							4
5	5.48	79	37.4							5
6	3.48	57	17.1							6
7	2.86	44	10.9							7
8	2.73	37	8.73							8
9	2.63	29	6.59							9
10	4.91	60	25.5							10
11	3.72	20	6.43							11
12	3.90	25 S	8.42							12
13	3.28	27	7.80							13
14	2.63	14	3.18							14
15	2.32	15	3.01							15
16	2.35	23	4.67							16
17	2.08	29	5.24							17
18	1.94	30	5.03							18
19	3.05	27	4.78							19
20	2.03	28	4.91							20
21	2.06	26	4.63							21
22	2.01	24	4.17							22
23	2.24	22	4.26							23
24	3.40	56	16.5							24
25	1.95	36	6.10							25
26	1.82	34	5.35							26
27	2.05	32	5.67							27
28	1.91	26	4.29							28
29	1.88	29	4.71							29
30	1.91	24	3.96							30
31	1.92	23	3.42							31
TOTAL	101.06		501.55							TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

DON RIVER AT TODMORDEN - STATION NO. 02HC024

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE VERTICAL SAMPLING	TYPE OF SAMPLER	INSTANT. CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES									PERCENT		
								.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND SILT CLAY
		(C)	(m^3/s)	(m)		(mg/L)	(mg/L)												
APR 16	15:05	16.0	2.79	10.0	DH48	16	884												
JUN 04	12:55	18.0	1.82	10.0	DH48	46	710												
JUL 22	09:35	22.0	1.42	10.0	DH48	13	734												
SEP 19	11:35		1.58	10.0	DH48	12	580												
OCT 24	12:30	13.0	16.5	10.0	PS82	113													
OCT 24	12:31	13.0	18.5	10.0	DH48	254	425												
OCT 25	13:15		2.61	10.0	DH48	27	468												
OCT 26	13:00		2.14	10.0	PS82	27													
OCT 27	13:00		1.83	10.0	PS82	14													
OCT 28	13:00		1.73	10.0	PS82	7													
OCT 29	13:00		1.69	10.0	PS82	7													
OCT 30	10:40		1.89	10.0	DH48	4	572												
NOV 03	13:00		18.5	10.0	PS82	250													
NOV 04	13:00		83.5	10.0	PS82	130													
NOV 04	19:20		104	10.0	PS82	1120													
NOV 04	19:30		103	10.0	PS82	1270													
NOV 04	20:45		121	10.0	DH59	1210	472												
NOV 04	23:45		40.0	10.0	PS82	927													
NOV 05	01:15		31.6	10.0	PS82	883													
NOV 05	02:45		27.5	10.0	PS82	775													
NOV 05	04:15		23.9	10.0	PS82	595													
NOV 05	05:45		20.5	10.0	PS82	485													
NOV 05	07:15		18.4	10.0	PS82	349													
NOV 05	08:45		16.6	10.0	PS82	313													
NOV 05	10:15		15.3	10.0	PS82	226													
NOV 05	11:35		13.8	10.0	DH59	192	406												
NOV 05	12:00		14.1	10.0	PS82	158													
NOV 06	12:00		9.81	10.0	PS82	186													
NOV 07	12:00		10.2	10.0	PS82	182													
NOV 08	12:00		4.00	10.0	PS82	180													
NOV 09	12:00		6.46	10.0	PS82	84													
NOV 10	12:00		14.2	10.0	PS82	237													
NOV 11	12:00		5.46	10.0	PS82	123													
NOV 12	12:00		7.88	10.0	PS82	123													
NOV 13	12:00		13.9	10.0	PS82	176													
NOV 14	12:00		20.5	10.0	PS82	224													
NOV 14	14:10		38.7	10.0	DH59	864	339												
NOV 14	20:20		15.8	10.0	PS82	451													
NOV 14	23:20		12.3	10.0	PS82	447													
NOV 15	02:20		10.1	10.0	PS82	355													
NOV 15	05:20		8.83	10.0	PS82	289													
NOV 15	08:20		8.08	10.0	PS82	176													
NOV 15	11:20		7.62	10.0	PS82	104													
NOV 15	15:05		8.89	10.0	DH48	104	538												
NOV 15	15:05		20.5	10.0	PS82	218													
NOV 17	15:05		5.80	10.0	PS82	208													
NOV 18	15:05		5.52	10.0	PS82	95													
NOV 19	15:05		8.83	10.0	PS82	237													
NOV 20	15:05		8.36	10.0	PS82	138													
NOV 21	15:05		5.31	10.0	PS82	123													
NOV 22	15:05		4.42	10.0	PS82	74													
NOV 23	15:05		5.31	10.0	PS82	98													
NOV 24	15:05		3.75	10.0	PS82	83													
NOV 25	15:05		3.27	10.0	PS82	46													
NOV 26	15:05		4.17	10.0	PS82	49													
DEC 12	12:00		3.50	10.0	DH48	15	1620												

NOTE : SINGLE VERTICAL LOCATED AT 10 METRES FOR 1985

DON RIVER AT TODMORDEN - STATION NO. 02HC024

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1985	---P-PP-PCCC	DUAL	1 270	NOV 04 *	4	OCT 30 *	2 900	NOV 04 *	9 770 *	---	---	---

DUAL - MANUAL AND AUTOMATIC SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ETOBICOKE CREEK BELOW QEW - STATION NO. 02HC030

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 16	10:05	13.0	1.15	13.0	DH48	42	838														
JUN 06	11:05	13.0	0.782	13.0	DH48	7	656														
JUL 03	08:20	20.0	1.47	13.0	DH48	425	414														
JUL 16	13:28	24.0	9.84	13.0	DH48	602	241														
JUL 22	12:50	22.0	0.357	13.0	DH48	9	782														
AUG 26	18:12		30.4	13.0	DH59	883	400	45	45	67	78	84	88	91	95	100			12	42	45
SEP 05	11:55		16.1	13.0	DH59	848	247														
SEP 09	08:50		0.773	13.0	DH48	24	548														
OCT 31	11:50		0.547	13.0	DH48	3	645														
NOV 13	08:55		17.7	13.0	DH59	251	377														
NOV 21	16:05		2.55	13.0	DH48	23	563														
DEC 10	10:05		1.58	13.0	DH48	12															
DEC 10	10:20		2.10	13.0	DH48	74	1060														
DEC 10	10:35		2.52	13.0	DH48	150															
DEC 10	10:53		2.88	13.0	DH48	200															
DEC 10	11:30		3.65	13.0	DH48	214															

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

ETOBICOKE CREEK BELOW QEW - STATION NO. 02HC030

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---P-PPPPPPP	MANUAL	883	AUG 26 *	3	OCT 31 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FAIRCHILD CREEK NEAR BRANTFORD - STATION NO. 02GB007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 13	13:40	1.0	37.2	12.0	DH59	198	468														
MAY 08	10:30	12.0	1.45	0.0 X	DH48	34	424														
JUL 17	13:00	19.5	1.07	0.0 X	DH48	107	441														
NOV 06	14:30	8.0	15.9	12.0	DH48	109	431														
NOV 20	10:35	5.0	14.9	12.0	DH59	54	414														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

FAIRCHILD CREEK NEAR BRANTFORD - STATION NO. 02GB007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	--P-P-P---P-	MANUAL	198	MAR 13 *	34	MAY 08 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 43 53 18 N LONG 78 49 16 W
DRAINAGE AREA: 58.5 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: MANUAL

TOTAL SUSPENDED SEDIMENT LOAD 1 440 TONNES FOR THE PERIOD JAN 01 TO MAY 31

REMARKS: SEASONAL OPERATION (FRESHET - MAY 31)

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	0.630 B	14	0.76	0.200 B	8	0.14	3.20 E	31	8.57	1
2	0.490 B	12	0.51	0.200 B	8	0.14	4.35	55	21.0	2
3	0.370 B	10	0.32	0.200 B	8	0.14	3.43	49	15.4	3
4	0.318 B	8 S	0.22	0.200 B	8	0.14	1.75 B	43	6.50	4
5	0.290 B	8	0.20	0.200 B	8	0.14	2.10 B	38	6.89	5
6	0.270 B	8	0.19	0.200 B	8	0.14	1.80 B	30	4.67	6
7	0.255 B	8	0.18	0.200 B	8	0.14	1.50 B	25	3.24	7
8	0.243 B	8	0.17	0.200 B	8	0.14	1.80 B	47	7.31	8
9	0.233 B	8	0.16	0.200 B	8	0.14	2.50 B	64	13.8	9
10	0.228 B	8	0.16	0.200 B	8	0.14	3.42	91	26.9	10
11	0.222 B	8	0.15	0.200 B	8	0.10	4.50 E	131	50.5	11
12	0.216 B	8	0.15	0.300 B	34	0.88	8.80 E	258	196	12
13	0.215 B	8	0.15	0.500 B	51	2.64	4.95	58 S	24.9	13
14	0.213 B	8	0.15	0.450 B	22	0.85	3.78	78	24.8	14
15	0.211 B	8	0.15	0.420 B	15	0.54	2.50 B	58	12.5	15
16	0.210 B	8	0.15	0.390 B	15	0.51	1.80 B	37	5.11	16
17	0.208 B	8	0.14	0.375 B	9	0.29	1.40 B	29	3.51	17
18	0.208 B	8	0.14	0.380 B	6	0.19	0.850 B	27	1.98	18
19	0.208 B	8	0.14	0.347 B	4	0.12	0.880 B	26 S	1.98	19
20	0.207 B	8	0.14	0.336 B	2 S	0.06	0.980 B	26	2.16	20
21	0.206 B	8	0.14	0.320 B	8	0.22	0.900 B	25	1.94	21
22	0.204 B	8	0.14	0.600 B	44	2.28	0.850 B	23	1.69	22
23	0.203 B	8	0.14	1.40 B	121	14.6	1.08 E	24	2.20	23
24	0.203 B	8	0.14	3.50 B	309	95.1	1.04	30	2.70	24
25	0.202 B	8	0.14	12.0 B	209 S	217	0.940 E	30	2.44	25
26	0.202 B	8	0.14	4.39	52	19.7	1.02 E	30	2.64	26
27	0.202 B	8	0.14	4.39	41 S	15.8	1.38 E	36	4.29	27
28	0.201 B	8	0.14	4.32	20 S	7.46	3.49	137 S	41.3	28
29	0.201 B	8	0.14				4.55 E	108	42.5	29
30	0.200 B	8	0.14				3.00 E	85	16.8	30
31	0.200 B	8	0.14				2.50 E	100	21.8	31
TOTAL	7.673		5.87	36.898		380.55	77.010		578.22	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.48	73 S	28.3	0.234	38 S	0.77				1
2	13.6	43 S	50.5	0.220 E	28	0.53				2
3	5.15 E	40	17.8	0.262 E	23	0.52				3
4	2.37	98	20.1	0.320 E	29	0.80				4
5	8.54	425 S	240	0.447	51	1.97				5
6	3.40	100 S	29.4	1.04	150	13.5				6
7	1.90	39	6.40	0.789	119 S	8.11				7
8	1.10	36	3.42	0.753	82	5.33				8
9	0.981	26	2.20	0.670 E	85	3.76				9
10	0.808	14	0.98	0.575 E	50	2.48				10
11	0.770	7 S	0.47	0.545 E	49	2.31				11
12	0.728	5	0.31	0.592	76	3.89				12
13	0.700 E	9	0.54	0.496	82	2.97				13
14	1.83	39	5.49	0.425 E	50	1.84				14
15	1.54	32	4.28	0.370 E	42	1.34				15
16	1.38	15	1.80	0.359	33	1.02				16
17	0.391	8 S	0.27	0.380 E	25	0.78				17
18	0.358	9	0.28	0.359	19	0.59				18
19	0.333	9	0.26	0.326	16	0.45				19
20	0.320	10	0.28	0.313	24	0.65				20
21	0.358	11	0.34	0.480 E	41	1.70				21
22	0.372	9	0.29	0.360 E	24	0.75				22
23	0.532	11 S	0.51	0.201	16	0.28				23
24	0.404	13	0.45	0.150 E	13	0.17				24
25	0.365	17	0.54	0.130 E	14	0.18				25
26	0.326	37	1.04	0.140 E	17	0.21				26
27	0.307	33	0.88	0.154	33	0.44				27
28	0.273	45 S	1.06	0.404	28 S	0.98				28
29	0.287	43	0.99	0.270 E	19	0.44				29
30	0.307	48	1.27	0.220 E	18	0.34				30
31				0.245 E	32	0.68				31
TOTAL	52.012		420.43	12.211		59.75				TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE SAMPLING VERTICAL	TYPE OF SAMPLER	INSTANT CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES									PERCENT		
								.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND	SILT	CLAY
		(C)	(m^3/s)	(m)		(mg/L)	(mg/L)														
JAN 04	13:30	0.1	0.316	3.5	DH48	8	447														
FEB 20	15:30	0.1	0.336	3.5	DH48	2	400														
FEB 25	12:10		9.15	3.5	DH59	215	177														
FEB 27	16:00		4.39	3.5	DH48	43	245														
FEB 28	08:20		3.72	3.5	DH48	20															
MAR 13	14:40	0.2	1.59	3.5	DH48	57															
MAR 18	18:40	0.4	0.490	3.5	DH48	26															
MAR 26	17:24	0.8	1.45	3.5	DH48	171	303														
APR 01	13:50	2.0	4.65	3.5	DH48	54															
APR 02	17:18	2.5	1.80	3.5	DH48	39															
APR 05	15:15	4.0	7.22	3.5	DH59	429	231														
APR 06	14:30	4.0	3.05	3.5	DH48	73															
APR 11	13:45	5.0	0.695	3.5	DH48	6															
APR 17	10:55	5.0	0.444	3.5	DH48	7															
APR 23	10:15	10.0	0.631	3.5	DH48	11															
APR 26	17:40	13.3	0.273	3.5	DH48	43															
MAY 01	17:00	15.4	0.234	3.5	DH48	33															
MAY 07	21:10	14.5	0.789	3.5	DH48	95															
MAY 28	11:10	15.5	0.693	3.5	DH48	27	336														
JUN 12	10:20		0.116	3.5	DH48	14															

NOTE - SINGLE VERTICAL LOCATED AT 3.5 METRES FOR 1985

FAREWELL CREEK AT OSHAWA - STATION NO. 02HD014

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM				MINIMUM				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY			TOTAL FOR PERIOD	SUMMARY : FEB-JUN MEAN LOAD	HISTORICAL MEAN LOAD	STANDARD ERROR OF MEAN %
	(JFMAMJJASOND)			(mg/L)				(mg/L)				(TONNES)			(TONNES)	(TONNES)	(TONNES)	
1980	------CCCCCC	MANUAL	477	JUL 21			4	SEP 08			107	JUL 20		751	---	---	---
1981	CCCCCCCCCCCC	MANUAL	601	FEB 20			1	OCT 14	*		648	FEB 20		1 940	10.6	10.6	---
1982	CCCC---------	MANUAL	1 250	MAR 31			2	APR 26			1 130	APR 03		3 490	---	---	---
1983	-CCCCCP-PPPP	MANUAL	2 300	MAR 15	*		1	MAR 15			1 900	MAR 19		2 900	19.3	15.0	29.0
1984	CCCCCCCCC--P	MANUAL	909	AUG 13			2	AUG 01			2 750	FEB 14	*	7 030 *	45.7	25.2	41.5
1985	CCCCCP------	MANUAL	429	APR 05			2	FEB 20			240	APR 05		1 440	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

GANARASKA RIVER ABOVE DALE - STATION NO. 02HD012

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE SAMPLING VERTICAL	TYPE OF SAMPLER	INSTANT. CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES									PERCENT		
								.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND	SILT	CLAY
		(C)	(m^3/s)	(m)		(mg/L)	(mg/L)														
FEB 24	11:25	1.0	97.3	MID	SURF	133	178														
MAR 12	13:10	1.0	38.3	MID	SURF	576	145														
MAR 13	13:45		11.5	MID	SURF	87	184														
MAR 28	10:40		5.40	MID	SURF	58	206														
APR 16	12:30	7.0	3.07	MID	DH48	5															
MAY 02	08:30	11.0	2.49	MID	DH48	8	222														
MAY 30	10:10	17.0	2.11	MID	DH48	6	253														
SEP 18	13:00	14.0	1.78	MID	DH48	15	199														
OCT 25	08:30	11.0	2.72	MID	DH48	10	389														
NOV 07	10:45	7.0	3.34	MID	DH59	12	301														
DEC 11	11:45	1.0	2.77	MID	DH59	3	366														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

CANARASKA RIVER ABOVE DALE - STATION NO. 02HD012

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1985	-PPPP---PPPP	MANUAL	976 MAR 12 *	3 DEC 11 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

GRAND RIVER AT BRANTFORD - STATION NO. 02GB001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 26	14:40		500	80.0	DH59	343	317														
MAR 30	22:30		895	80.0	DH59	576	120														
MAY 24	14:30	20.0	37.5	0.0 X	DH48	3															
MAY 28	18:30	16.0	42.5	80.0	DH59	5	422														
AUG 08	11:00	18.0	24.7	0.0 X	DH48	17	568														
NOV 13	11:40	6.0	138	80.0	DH59	31	476														
NOV 20	14:25	5.0	159	80.0	DH59	48	400														

NOTE : SINGLE VERTICAL IS UNDETERMINED FOR 1985

VERTICAL SYMBOL(S) X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

GRAND RIVER AT BRANTFORD - STATION NO. 02GB001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1975	---P--------	MANUAL	1 370 APR 20 *	282 APR 21	--- ---	---	---	---	---
1985	-PP-P--P--P-	MANUAL	576 MAR 30	3 MAY 24 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

GRAVEL RIVER NEAR CAVERS - STATION NO. 02AE001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUL 12	10:08	12.0	3.80	14.0	SURF	1	136														
SEP 11	09:45	12.0	4.70	14.0	SURF	2	182														
OCT 17	10:34	8.0	18.0	14.0	SURF	2	121														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

ONTARIO

GRAVEL RIVER NEAR CAVERS - STATION NO. 02AE001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1985	------P-PP--	MANUAL	2 SEP 11 *	1 JUL 12 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

SUSPENDED SEDIMENT FOR 1985

LOCATION LAT 43 53 15 N LONG 78 49 30 W
DRAINAGE AREA 41.6 km²
TYPE OF FLOW NATURAL
TYPE OF GAUGE RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 2 010 TONNES FOR THE PERIOD JAN 01 TO MAY 31

REMARKS: SEASONAL OPERATION (FRESHET - MAY 31)

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.260 B	18	0.40	0.055 B	18	0.08	1.15	84	8.35	1
2	0.300 B	18	0.31	0.055 B	18	0.08	1.70 B	66	9.89	2
3	0.130 B	18	0.20	0.055 B	18	0.08	0.900 B	66 S	5.13	3
4	0.085 B	18 S	0.13	0.055 B	18	0.08	0.550 B	66	3.23	4
5	0.075 B	18	0.12	0.055 B	18	0.09	0.840 B	66	4.79	5
6	0.067 B	18	0.10	0.055 B	18	0.08	0.620 B	54	2.89	6
7	0.065 B	18	0.10	0.055 B	18	0.08	0.480 B	48	2.03	7
8	0.064 B	18	0.10	0.054 B	18	0.08	0.820 B	122	8.64	8
9	0.063 B	18	0.10	0.054 B	18	0.08	2.80 B	122	29.5	9
10	0.063 B	18	0.10	0.054 B	18	0.08	3.24	173	48.4	10
11	0.063 B	18	0.10	0.054 B	15	0.07	2.88	182	45.9	11
12	0.063 B	18	0.10	0.180 B	31	0.43	7.33	685	421	12
13	0.062 B	18	0.10	0.310 B	32	0.86	2.28	272 S	53.6	13
14	0.062 B	18	0.10	0.250 B	19	0.43	2.06	238	42.5	14
15	0.062 B	18	0.10	0.225 B	14	0.27	1.20 B	182	18.8	15
16	0.062 B	18	0.10	0.205 B	15	0.27	0.680 B	137	8.05	16
17	0.061 B	18	0.09	0.180 B	16	0.25	0.750 B	135	8.75	17
18	0.061 B	18	0.09	0.180 B	17	0.24	0.370 B	118 S	3.80	18
19	0.061 B	18	0.09	0.150 B	11	0.14	0.400 B	78	2.63	19
20	0.060 B	18	0.09	0.145 B	8 S	0.10	0.485 B	66	2.85	20
21	0.060 B	18	0.09	0.140 B	14	0.17	0.385 B	67	2.23	21
22	0.059 B	18	0.09	0.230 B	54	1.07	0.310 B	67	1.79	22
23	0.059 B	18	0.09	3.20 B	442	122	0.472	71	2.90	23
24	0.059 B	18	0.09	10.5 B	428	388	0.477	73	3.01	24
25	0.058 B	18	0.09	5.72	287 S	142	0.354 B	64	1.96	25
26	0.056 B	18	0.09	2.83	117	28.6	0.340 B	61	1.79	26
27	0.057 B	18	0.09	1.95 B	61 S	10.3	0.850	117	8.56	27
28	0.057 B	18	0.09	1.50 B	88 S	11.4	2.31	590 S	118	28
29	0.057 B	18	0.09				2.02	385	67.2	29
30	0.056 B	18	0.09				0.850	151	12.4	30
31	0.056 B	18	0.09				1.88	323	51.9	31
TOTAL	2.325		3.61	28.558		708.47	41.683		995.28	TOTAL

	APR			MAY						
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.87	188 S	46.9	0.270	48 S	1.12				1
2	1.11	50 S	4.80	0.171	20	0.30				2
3	1.15	52	5.16	0.146	17	0.21				3
4	1.75	84	12.7	0.173	19	0.28				4
5	4.70	201 S	122	0.787	126	8.35				5
6	1.46	53 S	5.89	0.838	141	10.2				6
7	0.871	20	1.51	0.582	140 S	7.04				7
8	0.638	17	0.94	0.288	84	2.09				8
9	0.480	14	0.58	0.187	61	1.04				9
10	0.417 B	14	0.50	0.173	47	0.70				10
11	0.410	10 S	0.35	0.154	41	0.55				11
12	0.348	7	0.21	0.582	116	5.83				12
13	0.330	7	0.20	0.252	51	1.11				13
14	0.331	7	0.20	0.174	37	0.56				14
15	0.311	8	0.21	0.141	31	0.38				15
16	0.283	8	0.20	0.135	28	0.33				16
17	0.313	8 S	0.15	0.133	25	0.29				17
18	0.257	8	0.18	0.367	46	1.46				18
19	2.41	178	37.3	0.126	22	0.24				19
20	1.02	80	7.05	0.413	37	1.32				20
21	0.813	23	1.02	0.400	34	1.18				21
22	0.408	8	0.28	0.177	19	0.29				22
23	0.334	7 S	0.20	0.120	18	0.19				23
24	0.279	8	0.14	0.101	21	0.18				24
25	0.236	6	0.12	0.089	21	0.16				25
26	0.253	9	0.20	0.289	39	0.97				26
27	0.235	10	0.19	0.852	43	3.17				27
28	0.316	30 S	0.56	0.383	16 S	0.50				28
29	0.187	16	0.26	0.175	9	0.14				29
30	0.168	10	0.15	0.140	9	0.11				30
31				0.330	31	0.88				31
TOTAL	24.193		251.95	9.128		51.19				TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE SAMPLING VERTICAL	TYPE OF SAMPLER	INSTANT. CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES									PERCENT		
								.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND SILT CLAY
		(C)	(m^3/s)	(m)		(mg/L)	(mg/L)												
JAN 04	13:15	0.1	0.085 W	5.3	DH48	18	528												
FEB 20	14:25	0.1	0.145 W	5.3	DH48	9	891												
FEB 25	11:25	0.5	4.82	5.3	DH48	337	278												
FEB 27	15:40		1.69	5.3	DH48	48	648												
FEB 28	19:15		1.18	5.3	DH48	78													
MAR 03	14:07	0.1	1.71	5.3	DH48	89													
MAR 13	14:50	0.4	2.32	5.3	DH59	408													
MAR 18	18:12	0.3	0.566	5.3	DH48	107													
MAR 28	17:40	0.8	17.0	5.3	DH59	838	337												
APR 01	13:15	2.0	2.12	5.3	DH48	82													
APR 02	17:20	3.5	0.940	5.3	DH48	46													
APR 05	16:00	4.0	2.68	5.3	DH48	227													
APR 06	14:15	4.0	1.28	5.3	DH48	28													
APR 11	13:30	4.5	0.396	5.3	DH48	9													
APR 17	09:40	8.0	0.222	5.3	DH48	8													
APR 23	10:30	10.0	0.328	5.3	DH48	8													
APR 28	17:50	14.5	0.204	5.3	DH48	35													
MAY 01	17:14	17.0	0.208	5.3	DH48	43													
MAY 07	21:15	15.0	0.403	5.3	DH48	108													
MAY 28	10:40	16.0	0.354	5.3	DH48	12	439												
JUN 12	10:00		0.098	5.3	DH48	29													

NOTE : SINGLE VERTICAL LOCATED AT 5.3 METRES FOR 1985

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS

HARMONY CREEK AT OSHAWA - STATION NO. 02HD013

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-SEP MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1980	------CCCCCC	MANUAL	1 120	JUL 21	10	SEP 24	304	DEC 02	1 350	---	---	---
1981	CCCCCCCCCCCC	MANUAL	1 350	FEB 23	2	AUG 27 *	881	FEB 20	4 120	14.8	14.8	---
1982	CCCC--------	MANUAL	2 450	MAR 31	4	APR 26	1 800	MAR 31	4 550	---	---	---
1983	CCCCCCCCCCCC	MANUAL	3 110	MAR 19 *	5	MAR 16	2 180	MAR 19	5 500	15.1	15.5	4.2
1984	CCCCCCCCC--P	MANUAL	1 610	APR 16	7	JUL 23	8 000	FEB 14 *	11 000 *	40.1	23.7	34.7
1985	CCCCCP------	MANUAL	838	MAR 28	8	APR 17	421	MAR 12	2 010	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HIGHLAND CREEK NEAR WESTHILL - STATION NO. 02HC013

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE SAMPLING VERTICAL	TYPE OF SAMPLER	INSTANT. CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES									PERCENT		
								.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND SILT CLAY
		(C)	(m^3/s)	(m)		(mg/L)	(mg/L)												
APR 15	10:30	8.0	0.774	12.0	DH48	228	1010												
JUN 11	13:10	13.0	0.528	12.0	DH48	0	841												
JUL 22	08:30	14.0	0.504	12.0	DH48	5	760												
SEP 26	13:10		2.26	12.0	DH48	41													
SEP 26	13:38		2.51	12.0	DH48	888	510												
SEP 26	14:05		2.88	12.0	DH48	50													
OCT 25	09:50		0.712	12.0	DH48	10	497												
NOV 15	10:20	3.0	1.47	12.0	DH48	14	584												
DEC 11	15:55		1.08	12.0	DH48	5	1020												

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

ONTARIO

HIGHLAND CREEK NEAR WESTHILL - STATION NO. 02HC013

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1985	---P-PP-PPPP	MANUAL	838	SEP 25 *	0	JUN 11 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

ONTARIO

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 43 48 35 N LONG 79 37 38 W
DRAINAGE AREA: 303 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 28 500 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	3.00 B	58 S	15.3	1.18 B	48	4.89	7.50 B	321	211	1
2	2.49 B	59	12.7	1.17 B	48	4.85	7.80 B	245 S	165	2
3	2.12 B	54 S	9.89	1.17 B	49	4.85	5.60 B	208	101	3
4	1.84 B	50	7.08	1.16 B	50	5.01	3.35 B	175	50.7	4
5	1.64 B	57 S	7.58	1.18 B	48	4.81	2.31 B	97	9.4	5
6	1.45 B	58	8.52	1.18 B	52	5.17	2.17 B	94 S	17.6	6
7	1.40 B	61	7.38	1.15 B	58 S	5.76	2.12 B	117	21.4	7
8	1.36 B	52	6.11	1.14 B	58	5.71	2.50 B	90	19.4	8
9	1.33 B	48	5.62	1.14 B	48	4.73	3.11 B	153 S	41.1	9
10	1.32 B	82 S	7.07	1.13 B	46 S	4.49	5.25 B	283	133	10
11	1.31 B	75	8.49	1.13 B	42	4.10	9.08	282	229	11
12	1.31 B	68 S	7.70	1.36 B	46 S	5.48	21.1	975 S	1 780	12
13	1.30 B	49	5.50	2.58 B	75	16.8	16.2	607	850	13
14	1.30 B	33 S	3.71	3.40 B	66	12.5	12.8	433	483	14
15	1.29 B	27	3.01	2.26 B	55	10.7	10.9	293	276	15
16	1.28 B	25	2.78	2.12 B	46	8.79	7.38	190	121	16
17	1.28 B	23 S	2.54	2.04 B	43 S	7.58	8.68	212	159	17
18	1.27 B	22	2.41	1.97 B	42	7.19	4.50 B	107	41.5	18
19	1.26 B	22	2.40	1.82 B	53	8.79	4.12 B	104 S	37.0	19
20	1.25 B	25	2.70	1.69 B	53 S	8.65	5.20 B	111 S	49.9	20
21	1.25 B	33 S	3.58	1.85 B	52 S	8.31	4.73	84 S	38.4	21
22	1.24 B	28	3.00	1.89 B	86 S	11.3	4.27	78	28.8	22
23	1.24 B	23	2.48	8.20 B	258 S	183	4.75	100 S	41.0	23
24	1.23 B	24	2.55	27.7 B	1 080 S	2 540	4.81	82 S	34.8	24
25	1.22 B	47	4.95	28.0 B	834 S	1 990	4.57	85	33.5	25
26	1.22 B	63 S	6.64	20.0	418	719	4.09	71	25.1	26
27	1.21 B	54	5.45	12.9	248	276	4.85	157 S	67.1	27
28	1.20 B	52	5.38	7.72	306	205	14.6	1 240 S	1 560	28
29	1.19 B	53	5.45				20.5	988 S	1 720	29
30	1.19 B	53	5.45				14.5	410 S	514	30
31	1.18 B	51 S	5.20				9.89	171	143	31
TOTAL	43.67		178.67	140.61		5 674.52	233.43		9 011.8	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	14.0	377 S	456	2.27	39	7.65	6.92	561 S	336	1
2	10.4	155	139	2.14	29	5.36	4.14	173	61.9	2
3	7.32	193 S	85.1	2.05	23	4.07	2.70	90	21.0	3
4	7.12	178	110	1.87	19	3.23	2.03	65	11.4	4
5	21.3	2 130 S	3 930	2.15	36 S	8.89	1.78	86	10.2	5
6	23.1	1 150	2 200	2.48	86	20.6	1.71	58	8.57	6
7	14.7	381 S	487	2.85	132	32.5	1.82	52	7.28	7
8	9.31	332	267	2.61	77	16.7	1.87	41	5.56	8
9	7.03	172	104	2.18	45	8.61	1.54	40 S	5.32	9
10	5.37	126 S	58.5	2.04	31	5.45	1.50	35	4.54	10
11	4.80	89	41.1	1.95	24	4.04	1.41	28	3.63	11
12	4.76	64 S	26.3	1.88	26	4.55	1.39	20	2.40	12
13	4.68	49 S	19.8	1.85	30	4.80	1.40	25	3.02	13
14	4.86	33	13.3	1.80	33	5.13	1.39	28	3.38	14
15	5.09	68	29.8	1.75	36	5.44	1.80	75	9.72	15
16	5.57	126 S	60.6	1.79	33	5.10	1.54	71	9.45	16
17	4.81	88	36.3	1.84	39	6.20	1.79	119	18.4	17
18	4.00	56	19.4	1.82	37	5.82	1.87	84 S	10.3	18
19	4.24	43	15.8	1.75	34	5.17	1.72	49	7.28	19
20	5.05	118 S	51.7	1.74	39 S	5.85	1.89	52	7.14	20
21	5.52	65	31.0	1.73	28	4.19	1.52	40	5.25	21
22	4.34	52	19.5	1.70	16	2.35	1.80	197 S	27.2	22
23	3.55	45 S	13.8	1.62	22	3.08	2.85	366	86.2	23
24	3.17	44	12.1	1.55	17	2.28	2.20	181	34.4	24
25	2.93	35	8.86	1.45	24	3.01	1.83	115	16.2	25
26	2.76	24	5.72	1.46	48	6.05	1.48	81	10.2	26
27	2.71	48	11.2	3.15	229 S	62.3	1.37	49	5.80	27
28	2.62	52 S	11.8	3.94	291	99.1	1.30	43	4.83	28
29	2.40	47	9.75	2.85	133	30.5	1.28	29	3.16	29
30	2.31	44	8.78	1.70	75	11.0	1.24	15 S	1.61	30
31				1.70	59	8.67				31
TOTAL	199.62		5 265.31	63.48		385.41	57.54		739.22	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	1.23	17	1.81	1.03	46	4.09	2.22	161	30.9	1
2	1.23	25	2.65	1.04	57	5.12	1.76	112	17.2	2
3	1.23	30 S	3.19	1.01	60	5.24	1.67	97	14.0	3
4	1.20	24	2.49	0.981	61	5.22	1.83	143	23.6	4
5	1.16	29	2.91	1.00	52 S	4.49	3.26	293	82.5	5
6	1.23	54	5.74	1.01	43	3.75	5.47	410 S	194	6
7	1.28	46	5.09	1.02	56	4.84	3.39	170 S	49.8	7
8	1.27	66	7.24	1.22	98	10.3	2.49	127	27.3	8
9	1.24	57	6.11	1.15	58	5.76	2.12	74	13.6	9
10	1.20	70	7.26	1.04	42	3.77	2.45	145	30.7	10
11	1.12	63	6.10	1.11	53	5.08	2.14	108	20.0	11
12	1.08	63	5.88	1.15	43	4.27	1.85	72	11.5	12
13	1.08	63 S	5.88	1.08	38	3.55	1.76	47	7.15	13
14	1.25	116	12.5	1.05	36	3.27	1.80	31	4.29	14
15	2.24	316	61.2	1.25	130 S	14.0	1.47	34	4.32	15
16	7.31	600 S	379	1.82	249	39.2	1.42	33 S	4.05	16
17	2.52	217	47.2	1.48	130	16.6	1.40	25	3.02	17
18	1.76	121	18.4	1.34	153	17.7	1.37	34	4.02	18
19	1.54	80	10.6	2.21	384 S	73.3	1.38	37	4.35	19
20	1.39	74	8.89	1.78	238	36.6	1.35	35	4.08	20
21	1.30	56	6.29	1.41	131	16.0	1.30	30	3.37	21
22	1.21	44 S	4.60	1.30	80	8.89	1.32	32	3.65	22
23	1.10	58	5.51	1.24	56	6.21	1.35	35	4.08	23
24	1.08	63 S	5.88	1.44	91	11.3	1.40	35 S	4.35	24
25	1.09	54	5.09	3.37	313 S	91.1	1.40	34	4.11	25
26	1.09	44	4.14	3.70	371 S	119	1.48	29	3.73	26
27	1.08	39	3.64	3.73	340	110	1.78	24 S	3.85	27
28	1.07	45	4.16	2.68	176	39.2	1.58	19	2.59	28
29	1.03	37 S	3.29	1.87	85	14.5	1.44	24	2.99	29
30	1.02	49	4.32	2.74	285 S	62.7	1.38	21	2.47	30
31	1.03	65	4.89	3.11	291	78.2				31
TOTAL	45.66		651.95	51.371		823.45	56.92		585.81	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	1.36	17	2.00	1.50	13	1.68	3.11	119	32.0	1
2	1.34	20 S	2.32	1.49	20	2.57	8.87	491 S	376	2
3	1.28	11	1.22	2.06	22 S	3.92	4.98	80 S	38.7	3
4	1.27	13	1.43	5.39	250 S	116	3.52	134	40.8	4
5	1.71	95	14.0	7.83	330 S	223	3.50	52 S	15.7	5
6	1.77	59 S	9.02	4.67	61	24.6	2.82	26	6.33	6
7	1.56	32	4.31	3.33	44	12.7	2.57	20	4.44	7
8	1.48	31	3.96	2.64	24	5.47	2.47	9 S	1.92	8
9	1.43	29	3.56	2.42	38	7.95	2.41	12	2.80	9
10	1.46	27	3.41	5.86	313 S	158	2.40	15	3.11	10
11	1.47	28	3.56	4.46	86	33.1	2.45	23	4.87	11
12	1.50	32	4.15	3.09	22	5.87	2.51	25 S	5.42	12
13	2.04	89 S	15.7	5.81	215 E	108	2.44	21	4.43	13
14	2.06	65	11.6	8.25	250 E	178	1.88 B	22	3.57	14
15	1.76	13	1.88	6.19	175	124	1.51 B	26	3.65	15
16	1.69	28	4.09	5.52	117	55.8	1.54 B	30	3.99	16
17	1.59	3	0.41	6.15	136	72.3	1.59 B	21	2.88	17
18	1.55	2	0.27	4.76	89 S	28.4	1.63 B	35 S	4.93	18
19	1.80	59	9.18	5.81	182 S	86.2	1.65 B	35	4.99	19
20	2.42	124	25.9	5.02	96	41.6	1.68 B	37	5.37	20
21	1.83	78	12.7	3.82	48	15.8	1.69 B	32	4.87	21
22	1.71	66	9.75	3.15	17 S	4.63	1.68 B	35	5.08	22
23	1.65	56 S	7.98	2.97	16	4.11	1.70 B	31 S	4.55	23
24	1.69	49	7.15	2.84	17	4.17	1.80 B	23	3.58	24
25	2.00	75	13.0	2.65	19	4.35	1.78 B	20 S	3.08	25
26	1.80	82	13.5	2.47	21	4.48	1.77 B	34	5.20	26
27	1.72	51	7.58	2.52	43 S	9.36	1.76 B	31	4.71	27
28	1.59	26	3.57	2.44	25	5.27	1.75 B	24	3.83	28
29	1.51	13 S	1.70	2.38	27	5.55	1.74 B	24	3.81	29
30	1.50	15 S	1.94	2.35	26	5.28	1.72 B	21	3.12	30
31	1.49	13	1.67				1.70 B	20	2.94	31
TOTAL	51.23		202.63	121.64		1 354.16	74.62		809.77	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

HUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)		DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 01	14:38	0.1	3.00	W	17.6		DH48	60		315														
JAN 03	11:10	0.1	2.12		17.6		DH48	52																
JAN 05	11:23	0.1	1.84	W	17.6		DH48	66																
JAN 10	11:40	0.1	1.32	W	17.6		DH48	81		280														
JAN 12	16:50	0.1	1.31	W	17.6		DH48	85																
JAN 14	11:55	0.1	1.30	W	17.6		DH48	32																
JAN 17	09:15	0.1	1.28	W	17.6		DH48	24																
JAN 21	09:10	0.1	1.25	W	17.6		DH48	34																
JAN 26	14:20	0.1	1.22	W	17.6		DH48	65																
JAN 31	17:45	0.1	1.18	W	17.6		DH48	50																
FEB 07	17:45	0.1	1.15	W	17.6		DH48	61		269														
FEB 10	17:20	0.1	1.13	W	17.6		DH48	46																
FEB 12	16:13	0.1	1.38	W	17.6		DH48	47																
FEB 17	17:23	0.1	2.04	W	17.6		DH48	42																
FEB 20	10:10	0.1	1.89		17.6		DH48	56		330														
FEB 21	18:55	0.1	1.85	W	17.6		DH48	50																
FEB 22	14:30	0.1	1.99	W	17.6		DH48	75																
FEB 23	14:00	0.1	8.20	W	WEMB	X	DIP	187																
FEB 23	20:29	0.1	8.20	W	WEMB	X	SURF	297																
FEB 23	22:40	0.1	8.20	W	WEMB	X	SURF	487		358														
FEB 24	09:25	0.1	27.7	W	17.6		DH59	562																
FEB 24	11:30	0.1	27.7	W	17.6		DH59	1870		249														
FEB 24	14:14	0.1	27.7		17.6		DH59	848		233														
FEB 25	09:00	0.1	35.7		17.6		DH59	528																
FEB 25	18:10	0.1	5.56		7.0	M	DH59	559		225														
FEB 25	18:11	0.1	9.53		10.0	M	DH59	667		216														
FEB 25	18:12	0.1	4.30		13.0	M	DH59	652		239														
FEB 25	18:13	0.1	2.42		14.3	M	DH59	612		244														
FEB 25	18:15	0.1	7.20		16.0	M	DH53	619		237														
MAR 02	16:09	0.1	7.80	W	17.6		DH48	220																
MAR 06	17:00	0.5	2.17	W	17.6		DH48	100																
MAR 09	16:35	0.5	3.11	W	17.6		DH48	168																
MAR 12	09:30	0.5	22.2		17.6		DH59	393																
MAR 12	12:15	0.5	25.7		17.6		DH59	1960		235														
MAR 12	16:45	0.5	23.6		17.6		DH59	1580																
MAR 12	17:50	0.5	2.49		4.8	M	DH59	1310		228														
MAR 12	17:53	0.5	6.09		8.0	M	DH59	1440		218														
MAR 12	17:56	0.5	6.60		11.2	M	DH59	1470		212														
MAR 12	17:59	0.5	6.81		14.4	M	DH59	1400		218														
MAR 12	18:05	0.5	2.61		17.6	M	DH59	1190		232														
MAR 18	17:11	1.5	4.35		17.6		DH48	128																
MAR 20	14:05	1.0	5.20		17.6		DH48	109																
MAR 21	13:39	2.0	4.60		17.6		DH48	81																
MAR 23	10:18	2.0	4.31		17.6		DH48	103		282														
MAR 24	18:28	2.5	4.88		17.6		DH48	70																
MAR 27	18:25	5.0	4.98		17.6		DH48	139																
MAR 28	12:28	6.0	12.2		17.6		DH59	828																
MAR 28	16:30	6.0	20.4		17.6		DH59	2150																
MAR 28	18:02	6.0	22.4		17.6		DH59	2840		258														
MAR 29	07:32	2.0	20.7		17.6		DH59	848																
MAR 29	11:45	2.0	21.0		17.6		DH59	1410																
MAR 29	18:55	2.0	19.8		17.6		DH59	777		240														
MAR 30	18:58	3.0	12.6		17.6		DH59	340																
APR 01	18:25	2.0	14.2		17.6		DH59	246																
APR 03	18:43	1.5	6.78		17.6		DH48	83																
APR 05	08:48	2.5	27.1		17.6		DH59	3000		271														
APR 05	13:25	2.5	24.6		17.6		DH59	2260																
APR 07	15:00	4.0	13.7		17.6		DH59	388		302														
APR 10	18:57	3.0	4.98		17.6		DH48	125																
APR 12	17:35	8.0	4.82		17.6		DH48	62																
APR 13	17:42	8.0	4.69		17.6		DH48	43																
APR 16	15:10	13.0	5.67		17.6		DH48	95																
APR 20	16:55	12.0	5.45		17.6		DH48	118																
APR 23	16:05	18.0	3.51		17.6		DH48	38																
APR 28	11:10	12.0	2.55		17.6		DH48	48																
MAY 05	08:30	11.0	2.06		17.6		DH48	28																
MAY 20	20:20	15.0	1.63		17.6		DH48	51		373														
MAY 27	07:25	14.0	2.84		17.6		DH48	218		340														
MAY 27	11:10	14.0	3.20		17.6		DH48	171																
MAY 27	18:40	14.0	4.02		17.6		DH48	271																
JUN 01	17:30	17.0	8.04		17.6		DH48	453		348														
JUN 09	09:52	20.0	1.55		17.6		DH48	42																
JUN 18	10:35	19.0	1.78		17.6		DH48	49																
JUN 22	18:10	19.0	1.84		17.6		DH48	306		362														
JUN 30	12:32	24.5	1.19		17.6		DH48	11																
JUL 03	14:05	25.0	1.22		17.6		DH48	29																
JUL 08	13:55	21.5	1.47		17.6		DH48	1310	A	346														
JUL 13	14:25	25.0	1.07		17.6		DH48	61																
JUL 16	09:30	19.0	8.64		17.6		DH48	604		303														
JUL 22	13:45	24.0	1.16		17.6		DH48	52																
JUL 24	08:20	21.0	1.08		17.6		DH48	62																
JUL 29	10:12	23.0	1.06		17.6		DH48	41																
AUG 05	13:15	24.0	0.950		17.6		DH48	51																
AUG 15	08:45	22.0	1.15		17.6		DH48	58																
AUG 18	07:25	18.0	2.65		17.6		DH48	485		297														
AUG 25	10:34	16.0	4.02		17.6		DH48	387																
AUG 26	08:43	17.0	3.15		17.6		DH48	294																
AUG 28	13:48	19.0	4.05		17.6		DH48	226		282														
AUG 30	07:47	16.0	2.31		17.6		DH48	195																
SEP 06	12:58	22.0	6.20		17.6		DH48	377		342														
SEP 07	08:25	21.0	3.67		17.6		DH48	168																
SEP 18	10:55	14.0	1.53		17.6		DH48	35																
SEP 24	15:47	18.0	1.44		17.6		DH48	9																
SEP 27	12:10	15.0	1.83		17.6		DH48	21		289														
OCT 02	08:55	11.5	1.34		17.6		DH48	33																
OCT 08	08:10	10.0	1.82		17.6		DH48	82																
OCT 13	10:39	10.0	1.86		17.6		DH48	36		289														
OCT 23	07:40	9.0	1.65		17.6		DH48	58																
OCT 28	14:20	7.0	1.47		17.6		DH48	14																
OCT 30	16:02	7.0	1.48		17.6		DH48	17		318														
NOV 03	12:14	8.5	1.84		17.6		DH48	21																
NOV 04	09:45	8.5	4.31		17.6		DH48	112																

NOTE : SINGLE VERTICAL LOCATED AT 17.6 METRES FOR 1985

DISCHARGE SYMBOL(S): W - DAILY MEAN, ICE CONDITIONS
CONCENTRATION SYMBOL(S): A - CLASSIFIED AS AN ANOMALY
VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL M - A SEDIMENT MEASUREMENT VERTICAL

CONTINUED

NUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
NOV 05	14:30	9.0	7.75		17.6	DH59	224															
NOV 05	15:55	9.0	7.52		17.6	DH48	180															
NOV 10	15:50	4.0	7.02		17.6	DH48	258	390														
NOV 13	13:55	5.0	7.31		17.6	DH48	349															
NOV 14	12:10	4.0	7.26		17.6	DH48	217															
NOV 18	10:45	4.0	4.80		17.6	DH48	52															
NOV 19	10:55	5.0	5.84		17.6	DH48	178	369														
NOV 22	12:15	4.0	3.14		17.6	DH48	19															
NOV 27	14:17	3.0	2.48		17.6	DH48	51															
DEC 02	10:32	2.0	9.96		17.6	DH59	517	428														
DEC 03	09:15	2.0	5.53		17.6	DH48	77															
DEC 05	08:18	2.0	3.52		17.6	DH48	45															
DEC 08	13:45	3.0	2.48		17.6	DH48	24															
DEC 12	10:41	2.0	2.53		17.6	DH48	27	364														
DEC 18	11:28	0.1	1.83	W	17.6	DH48	41															
DEC 23	18:02	0.1	1.70	W	17.6	DH48	31															
DEC 25	16:46	0.1	1.78	W	17.6	DH48	17															

NOTE - SINGLE VERTICAL LOCATED AT 17.6 METRES FOR 1985

DISCHARGE SYMBOL(S) - W - DAILY MEAN, ICE CONDITIONS

NUMBER RIVER AT ELDER MILLS - STATION NO. 02HC025

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	--CCCCCCCCCC	MANUAL	470	MAR 01	7	MAY 12	288	MAR 01	4 380	---	---	---
1967	CCCCCCCCCCCC	MANUAL	1 850	JUL 09	13	OCT 05	5 000	APR 03	23 800	65.3	65.3	---
1968	CCCCCCCCCCCC	MANUAL	1 330	AUG 23	9	OCT 23	3 430	MAR 19	22 100	60.4	62.9	3.9
1969	CCCCCCCCCCCC	MANUAL	2 260	APR 18	10	JUN 13	4 280	APR 18	24 800	67.3	64.3	3.2
1970	CCCCCCCCCCCC	MANUAL	2 430	MAY 26	8	SEP 23	1 230	APR 09	4 720	23.9	54.2	18.4
1971	CCCCCCCCCCCC	MANUAL	1 800	APR 02	10	NOV 10	2 440	APR 02	12 500	34.2	50.2	17.7
1972	CCCCCCCCCCCC	MANUAL	1 920	APR 11	6	SEP 25	4 420	APR 14	23 800	64.9	52.7	14.5
1973	CCCCCCCCCCCC	MANUAL	2 800	MAR 08	7	OCT 16	4 030	MAR 08	26 100	71.5	55.4	12.6
1974	CCCCCCCCCCCC	MANUAL	2 100	MAY 17	8	OCT 16	5 850	MAR 05	32 100	87.9	59.6	13.3
1975	CCCCCCCCCCCC	MANUAL	3 710	APR 19 *	8	OCT 10	12 000	APR 19 *	34 100	93.4	63.4	11.8
1976	CCCCCCCCCCCC	MANUAL	3 810	MAR 20	8	OCT 19	7 850	MAR 20	37 400	102	67.1	11.5
1977	CCCCCCCCCCCC	MANUAL	2 170	SEP 25	16	MAR 07	3 350	OCT 02	31 000	84.9	68.7	10.4
1978	CCCCCCCCCCCC	MANUAL	3 320	APR 01	10	OCT 23	6 630	APR 01	39 900 *	109	72.1	10.2
1979	CCCCCCCCCCCC	MANUAL	1 860	MAR 14	10	SEP 10	3 510	MAR 05	32 200	88.3	73.3	9.4
1980	CCCCCCCCCCCC	MANUAL	3 260	APR 15	14	MAR 06	6 280	APR 15	26 100	71.2	73.2	8.7
1981	CCCCCCCCCCCC	MANUAL	804	JUL 08	8	APR 23	4 700	FEB 19	20 000	54.7	71.8	8.4
1982	CCCCCCCCCCCC	MANUAL	2 360	MAR 31	8	OCT 15	7 650	MAR 31	35 300	96.7	73.5	8.0
1983	CCCCCCCCCCCC	MANUAL	1 070	MAY 03	11	NOV 15	1 420	FEB 03	14 800	40.8	71.6	8.2
1984	CCCCCCCCCCCC	MANUAL	2 550	DEC 29	1	NOV 02 *	2 260	FEB 14	16 800	46.1	70.1	8.1
1985	CCCCCCCCCCCC	MANUAL	3 000	APR 05	9	SEP 24	3 830	APR 05	28 500	78.1	70.6	7.8

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

KETTLE CREEK AT ST. THOMAS - STATION NO. 02GC002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 11	10:30	3.0	3.26	MID	DH59	51	383														
MAY 07	13:30	15.0	0.826	MID	DH48	28	374														
JUN 05	13:30	17.0	0.294	MID	DH48	43	360														
JUN 25	10:00	19.0	0.420	MID	DH48	81	416														
JUL 31	09:30	21.0	0.213	MID	DH48	77	408														
AUG 29	12:00	20.0	0.833	MID	DH48	136	348														
OCT 01	12:30	15.0	0.182	MID	DH48	44	377														
OCT 30	15:30	8.0	0.753	MID	DH48	50	449														

NOTE - SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

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KETTLE CREEK AT ST. THOMAS - STATION NO. 02GC002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM		MINIMUM		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY		TOTAL FOR PERIOD	SUMMARY MEAN LOAD	HISTORICAL MEAN LOAD	STANDARD ERROR OF MEAN %
	(JFMAMJJASOND)		(mg/L)		(mg/L)		(TONNES)		(TONNES)	(TONNES)	(TONNES)	
1985	---PPPPP-P--	MANUAL	136	AUG 29 *	28	MAY 07 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

LITTLE OTTER CREEK NEAR STRAFFORDVILLE - STATION NO. 02GC015

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE SAMPLING VERTICAL	TYPE OF SAMPLER	INSTANT. CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES								PERCENT		
								.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND	SILT	CLAY
		(C)	(m^3/s)	(m)		(mg/L)	(mg/L)											
FEB 25	13:20		15.2	3.0	DH59	550	168											
MAR 12	11:50	0.1	8.27	3.0	DH59	851	271											
MAR 28	09:45	4.5	5.96	3.0	DH59	749	117											
MAR 29	11:10	5.0	5.86	3.0	DH59	724	117											
APR 02	10:30	4.0	6.31	3.0	DH59	775												
APR 03	10:35	5.0	4.87	3.0	DH59	527	119											
APR 22	11:20	14.0	1.85	3.0	DH48	87	315											
MAY 09	11:00	15.0	1.28	3.0	DH48	32	324											
JUN 14	09:00		0.935	3.0	DH48	80	356											
AUG 13	09:55	23.0	0.473	3.0	DH48	45	384											
OCT 07	08:30	10.0	0.747	3.0	DH48	54	286											
NOV 04	08:00	5.0	2.89	3.0	DH48	484												
NOV 06	09:15	7.0	5.99	3.0	DH59	828	382											
NOV 07	10:30	7.0	3.40	3.0	DH48	464	374											
DEC 09	09:05	3.0	2.42	3.0	DH48	150												

NOTE : SINGLE VERTICAL LOCATED AT 3.0 METRES FOR 1985

LITTLE OTTER CREEK NEAR STRAFFORDVILLE - STATION NO. 02GC015

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM		MINIMUM		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY		TOTAL FOR PERIOD	SUMMARY MEAN LOAD	HISTORICAL MEAN LOAD	STANDARD ERROR OF MEAN %
	(JFMAMJJASOND)		(mg/L)		(mg/L)		(TONNES)		(TONNES)	(TONNES)	(TONNES)	
1985	-PPPPP-P-PPP	MANUAL	828	NOV 06 *	32	MAY 09 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

MACGREGOR CREEK NEAR CHATHAM - STATION NO. 02GE007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE SAMPLING VERTICAL	TYPE OF SAMPLER	INSTANT. CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES								PERCENT		
								.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND	SILT	CLAY
		(C)	(m^3/s)	(m)		(mg/L)	(mg/L)											
APR 24	14:30	17.0	0.891	2.7	DH48	148	414											
MAY 15	09:10	18.0	0.185	2.7	DH48	181	484											
JUL 05	10:50	24.0	0.077	2.7	DH48	110	481											
AUG 28	14:30	23.0	0.140	2.7	DH48	99	457											
OCT 23	12:30	13.0	1.32	2.7	DH48	129	578											
NOV 05	13:45	10.0	33.5	2.7	DH59	247	367											
NOV 19	15:05		19.1	2.7	DH48	274	435											

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

MACGREGOR CREEK NEAR CHATHAM - STATION NO. 02GE007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	---PP-PP-PP-	MANUAL	274	NOV 19 *	99	AUG 29 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

MISSISSIPPI RIVER AT APPELTON - STATION NO. 02KF006

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 12	10:00	2.0	102		0.0 X	DH59	5	186														
MAY 15	09:50	15.0	38.6		17.0	DH48	3	121														
JUL 31	11:30	24.0	5.83		17.0	DH48	3	213														
OCT 02	09:45	18.0	9.36		17.0	DH48	1	168														
NOV 13	11:45	2.0	21.2	M	0.0 X	DH48	1	200														
DEC 17	11:10	0.1	31.2		0.0 X	DH48	2	163														

NOTE : SINGLE VERTICAL LOCATED AT 17 METRES FOR 1985

DISCHARGE SYMBOL(S): M - DAILY MEAN
VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

MISSISSIPPI RIVER AT APPELTON - STATION NO. 02KF006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1985	---PP-P--PPP	MANUAL	5	APR 12 *	1	OCT 02 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

MOIRA RIVERNEAR FOXBORO - STATION NO. 02HL001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 24	08:30		27.1	MID	SURF	4	183														
MAR 13	08:11		112	MID	SURF	4	129														
MAR 27	10:34		82.6	MID	SURF	3	111														
MAR 27	10:35		82.6	MID	SURF	3	111														
MAY 29	07:30		15.6	MID	SURF	2	188														
JUN 12	13:45		9.84	MID	DH48	4	194														
SEP 11	09:05	15.5	38.9	MID	DH48	4	137														
OCT 24	13:45	11.0	13.6	MID	DH48	3	237														
NOV 06	14:00	6.0	48.2	17.0	DH48	6	215														
NOV 13	08:40	5.0	80.5	17.0	DH59	2	189														
DEC 05	15:15	1.0	56.4	17.0	DH59	0	196														

NOTE : SINGLE VERTICAL LOCATED AT 17 METRES FOR 1985

MOIRA RIVERNEAR FOXBORO - STATION NO. 02HL001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1985	-PP-PP--PPPP	MANUAL	6	NOV 06 *	0	DEC 05 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

MOOSE RIVER ABOVE MOOSE RIVER - STATION NO. 04LG004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
AUG 17	11:30	17.0	752	MID	SURF	63	136														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

MOOSE RIVER ABOVE MOOSE RIVER - STATION NO. 04LG004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1984	----P--P-P-P--	MANUAL	78	MAY 10 *	46	AUG 17 *	---	---	---	---	---	---
1985	--------P-----	MANUAL	63	AUG 17	63	AUG 17	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

NANTICOKE CREEK AT NANTICOKE - STATION NO. 02GC022

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 26	10:35	0.1	20.3	13.0	DH59	75	166														
MAR 12	14:20	0.1	16.2	13.0	DH59	131	282														
APR 01	11:00	4.0	23.8	13.0	DH59	529	83														
MAY 10	10:45	14.0	0.781	13.0	DH48	54	350														
JUN 04	08:40		1.12	13.0	DH48	159	384														
JUN 13	08:40		0.884	13.0	DH48	93	400														
AUG 12	10:50	25.0	0.246	13.0	DH48	190	391														
OCT 08	09:15	10.0	0.552	13.0	DH48	54	354														
NOV 04	12:20	7.0	11.6	13.0	DH48	249	316														
NOV 04	12:30	7.0	11.6	13.0	DH59	256															
NOV 06	12:10	8.0	22.8	13.0	DH48	104															
DEC 10	08:30	3.0	3.30	13.0	DH48	10	449														

NOTE : SINGLE VERTICAL LOCATED AT 12.0 METRES FOR 1985

NANTICOKE CREEK AT NANTICOKE - STATION NO. 02GC022

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1984	-----P--P---	MANUAL	312	SEP 11	298	JUN 19	---	---	---	---	---	---
1985	-PPPPP-P-PPP	MANUAL	529	APR 01 #	10	DEC 10 #	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH # - EXTREME FOR PERIOD OF RECORD

NAPANEE RIVER AT CAMDEN EAST - STATION NO. 02HM007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAY 29	15:50	18.0	1.89	10.0	DH48	2	197														
JUN 25	14:00	20.0	1.89	10.0	DH48	1	203														
AUG 14	13:10	24.0	44.8	10.0	DH48	1	227														
SEP 19	12:00	19.0	4.60	10.0	DH48	1	263														
NOV 20	11:00	7.0	20.3	10.0	DH59	4	195														

NOTE : SINGLE VERTICAL LOCATED AT 10 METRES FOR 1985

NAPANEE RIVER AT CAMDEN EAST - STATION NO. 02HM007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1985	----PP-PP-P-	MANUAL	4	NOV 20 #	1	JUN 25 #	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH # - EXTREME FOR PERIOD OF RECORD

NITH RIVER NEAR CANNING - STATION NO. 02GA010

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	14:55	1.0	79.9	15.0	DH59	107	208														
MAR 30	11:30	2.0	101	15.0	D49	195	215														
MAY 13	15:30	16.0	5.42	15.0	DH48	22	467														
JUL 18	08:10	19.0	4.70	15.0	DH48	22	522														
NOV 12	16:30	7.0	29.5	0.0 x	DH59	58	422														

NOTE : SINGLE VERTICAL IS UNDETERMINED FOR 1985

VERTICAL SYMBOL(S): x - NOT AT REGULAR SINGLE SAMPLE VERTICAL

ONTARIO

NITH RIVER NEAR CANNING - STATION NO. 02GA010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	---P--------	MANUAL	2 520	APR 20 *	2 520	APR 20	---	---	---	---	---	---
1985	--P-P-P---P-	MANUAL	195	MAR 30	22	MAY 13 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

NORTH THAMES RIVER NEAR THORNDALE - STATION NO. 02GD015

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 11	13:00	5.0	38.9	MID	DH59	31	272														
MAY 08	12:00	15.0	6.59	MID	DH48	8	328														
JUN 12	14:30		3.03	MID	DH48	17	364														
JUL 14	10:00	22.0	2.51	MID	DH48	13	385														
AUG 01	10:00	20.0	2.09	MID	DH48	22	410														
AUG 30	13:30		7.57	MID	DH48	65	286														
OCT 16	10:30	11.0	13.2	MID	DH48	37	370														
OCT 31	12:15	7.0	7.10	MID	DH48	35	379														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

NORTH THAMES RIVER NEAR THORNDALE - STATION NO. 02GD015

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPPPP-P--	MANUAL	65	AUG 30 *	8	MAY 08 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 44 14 59 N LONG 79 49 20 W
DRAINAGE AREA: 1 180 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 69 700 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	15.1	13	17.0	4.75 B	4	1.64	50.0 B	13	56.2	1
2	18.0 B	23	35.8	4.70 B	4	1.62	35.0 B	13	39.3	2
3	15.5 B	9	12.1	4.65 B	4	1.61	29.0 B	13	32.6	3
4	13.5 B	6	7.00	4.60 B	4	1.59	25.0 B	14	30.2	4
5	12.0 B	5	5.18	4.60 B	4	1.59	23.0 B	11	21.9	5
6	10.5 B	5	4.54	4.55 B	4	1.57	24.0 B	11	22.8	6
7	9.80 B	5	4.18	4.50 B	4	1.55	23.0 B	11	21.9	7
8	8.80 B	4	3.04	4.45 B	4	1.54	22.0 B	12	24.7	8
9	8.20 B	5	3.54	4.40 B	4	1.52	22.0 B	12	22.8	9
10	7.80 B	6	4.04	4.40 B	4	1.52	23.0 B	13	25.8	10
11	7.40 B	5	3.20	4.80 B	4	1.66	24.5 B	12	25.4	11
12	7.10 B	4	2.45	5.40 B	11	5.08	40.0 B	20	89.1	12
13	6.80 B	4	2.35	8.30 B	26	18.6	58.0 B	36	180	13
14	6.50 B	4	2.25	10.0 B	22	19.0	54.0 B	71	331	14
15	6.22 B	4	2.15	9.50 B	18	14.6	50.0 B	79	341	15
16	6.05 B	4	2.09	9.00 B	15	11.7	46.0 B	114	453	16
17	5.90 B	4	2.04	8.50 B	14	10.3	41.0 B	149	528	17
18	5.80 B	4	2.00	8.10 B	11	7.70	36.6	103	326	18
19	5.70 B	4	1.97	7.80 B	12	8.09	32.9	108	307	19
20	5.60 B	4	1.94	7.60 B	10	6.57	33.6	124	360	20
21	5.50 B	4	1.90	7.40 B	14	8.95	28.3	109 S	267	21
22	5.40 B	4	1.87	7.80 B	16	10.4	25.2	93	202	22
23	5.30 B	4	1.83	11.5 B	19	18.9	28.9	148	385	23
24	5.20 B	4	1.80	38.0 B	43	141	29.5	143 S	364	24
25	5.10 B	4	1.76	68.0 B	117	687	35.3	88 S	188	25
26	5.05 B	4	1.75	78.8 B	315 S	2 090	22.9	82 S	182	26
27	5.00 B	4	1.73	65.0 B	136	784	29.6	138 S	353	27
28	4.95 B	4	1.71	54.0 B	54	252	86.4	884 S	5 070	28
29	4.90 B	4	1.69				100	1 310 S	10 500	29
30	4.85 B	4	1.68				52.8	537 S	4 310	30
31	4.80 B	4	1.66				69.0	311	1 850	31
TOTAL	238.12		138.21	454.10		4 092.91	1 210.5		26 889.7	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	71.1	995 S	3 880	11.3	45 S	43.9	16.8	185	240	1
2	58.9	348 S	1 770	11.1	34 S	32.6	14.0	102 S	123	2
3	44.9	216	838	10.7	21 S	19.4	10.1	76	88.1	3
4	40.8	198	698	10.3	37 S	32.9	8.11	58	40.6	4
5	66.2	355	2 030	11.5	74 S	73.5	7.17	47	29.1	5
6	86.7	840	7 020	13.8	102	122	6.13	43	22.8	6
7	87.6	464	3 430	16.3	101 S	142	6.09	42	22.1	7
8	82.4	271 S	1 480	14.4	47 S	58.5	5.98	42	21.6	8
9	46.5	187	783	12.1	35	36.6	5.74	40	19.8	9
10	35.6	138	424	10.8	35	32.7	5.48	39	18.5	10
11	29.2	110 S	278	10.2	33 S	29.1	5.23	38	16.3	11
12	27.9	122 S	294	9.46	34 S	27.6	5.23	37	16.7	12
13	30.6	127 S	336	9.09	45 S	35.3	5.15	36	16.0	13
14	30.4	123	323	8.42	46 S	32.7	5.04	34	14.8	14
15	36.4	191 S	801	8.07	54 S	37.7	4.89	34	14.4	15
16	41.8	285	1 020	8.23	63	44.8	5.05	31	13.6	16
17	33.0	139 S	398	8.06	59 S	41.2	5.89	36 S	19.3	17
18	23.0	87	173	7.81	52	35.1	5.98	42	21.7	18
19	27.0	310 S	723	7.60	46	30.2	5.63	37	16.0	19
20	41.4	431 S	1 540	7.39	44	28.1	5.03	31	13.5	20
21	36.4	200	584	7.61	48 S	31.6	4.40	24 S	9.13	21
22	23.5	112	227	7.60	53 S	34.8	4.61	38	15.1	22
23	19.1	73	120	7.05	49	29.8	7.62	67	57.3	23
24	17.0	56 S	82.3	6.63	45	25.8	7.11	57	35.0	24
25	15.8	55	75.1	8.60	44	28.1	5.46	39	18.4	25
26	14.9	55	70.8	6.34	46	25.2	4.66	34	13.7	26
27	14.4	56 S	69.7	11.5	143	142	4.15	31	11.3	27
28	13.5	54	63.0	14.8	125	160	3.96	27	9.24	28
29	13.0	52	58.4	11.2	67	64.8	3.81	34 S	7.90	29
30	12.2	48	50.6	8.79	53	40.3	3.82	24	7.82	30
31				8.94	67 S	51.8				31
TOTAL	1 109.0		29 177.9	303.71		1 567.3	186.37		954.58	TOTAL

B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

MOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02EB003

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	3.82	20	6.60	2.38	61	12.5	7.42	94	60.3	1
2	3.86	16 S	5.08	2.30	57	10.8	5.92	73	37.3	2
3	3.97	64 S	22.0	1.97	51	8.68	5.16	63	28.1	3
4	3.59	45	14.0	2.03	52	9.12	5.08	84	44.1	4
5	3.36	39	11.3	2.11	51	9.30	11.9	163	168	5
6	3.38	38	11.1	2.12	54 S	9.89	17.7	170 S	260	6
7	4.16	69	24.9	2.24	55	10.6	12.4	103	110	7
8	4.32	74	27.6	2.10	49	8.89	9.19	134 S	106	8
9	4.05	65 S	29.7	1.80	42	6.89	7.85	109	74.2	9
10	3.84	76	33.9	1.78	39	6.00	6.49	42 S	33.6	10
11	3.34	66	18.5	2.07	43	7.69	5.66	29	14.2	11
12	3.02	56	14.6	2.15	43 S	7.99	5.05	32	14.0	12
13	3.06	46	12.5	1.86	41	6.94	4.74	35 S	14.3	13
14	3.12	44	11.8	2.02	41	7.15	4.55	31	12.2	14
15	4.66	72 S	29.1	3.30	66	18.4	4.33	23 S	8.60	15
16	5.77	107	53.3	5.37	78	36.2	4.13	21	7.48	16
17	4.67	82	33.1	3.85	62 S	14.0	4.03	20	6.95	17
18	3.63	67	21.0	3.34	38	11.0	3.93	18	6.10	18
19	3.27	63	17.8	3.84	57	18.9	3.80	17	5.58	19
20	3.18	71	19.5	4.03	59 S	20.6	3.64	15 S	4.77	20
21	3.02	71 S	18.5	3.61	50	15.2	3.56	15	4.81	21
22	3.03	64	15.8	3.24	42	11.8	3.52	15	4.56	22
23	2.78	64	15.4	3.06	38	10.0	3.53	21 S	6.40	23
24	2.41	60	12.5	3.63	55	17.2	3.52	28 S	8.82	24
25	2.37	57	11.2	7.29	120	75.6	3.51	10 S	3.03	25
26	2.38	59	12.1	10.9	190	161	3.86	11	3.87	26
27	2.44	60 S	12.6	15.4	152	202	4.51	13 S	5.07	27
28	2.38	59	12.1	9.31	84	67.6	4.44	12	4.60	28
29	2.33	52	10.0	6.72	82	38.0	4.11	13	4.62	29
30	1.92	44	7.30	7.51	116	75.3	3.93	14	6.43	30
31	2.27	59	11.6	8.74	124	104				31
TOTAL	102.64		547.56	133.07		1 008.19	172.61		1 056.30	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	3.89	17 S	5.71	4.87	2 S	0.84	10.3	36	33.6	1
2	3.92	9 S	3.05	4.78	4	1.65	26.3	133	302	2
3	3.80	5	1.64	6.01	15	7.79	33.2	91	182	3
4	3.78	4	1.31	9.32	44	35.1	16.7	76	110	4
5	4.12	5	1.78	15.6	125 S	168	14.0	53	64.1	5
6	4.38	5 S	1.89	14.6	90	114	12.4	37	39.6	6
7	4.30	5	1.86	11.1	85	82.3	11.6	39	39.1	7
8	4.12	4	1.42	8.95	40	30.9	11.0	25	23.8	8
9	3.97	4	1.37	8.11	29 S	20.3	10.6	33	31.1	9
10	4.33	6	2.02	9.06	36	28.2	10.2	21	18.5	10
11	4.38	15 S	5.66	10.5	38	34.5	10.1	20	17.5	11
12	4.53	10	3.91	9.36	31	25.1	10.2	20	17.6	12
13	5.22	9 S	4.84	17.6	175	285	10.1	18	16.8	13
14	5.78	14	8.20	30.1	185	481	8.20 B	16 S	12.8	14
15	6.10	10 S	5.37	28.0	175 S	423	7.70 B	16	12.0	15
16	5.83	6	3.02	18.3	134	233	7.30 B	18	11.6	16
17	5.49	6	2.85	14.6	141	227	6.80 B	18	10.7	17
18	5.18	5 S	2.24	14.1	119	184	6.60 B	18	10.3	18
19	5.54	15	7.66	20.4	149 S	263	6.30 B	18	9.80	19
20	7.74	28	18.7	30.7	101	181	6.10 B	18	9.49	20
21	7.09	21	12.9	17.3	73	108	5.90 B	18	9.18	21
22	6.04	17	8.87	13.6	53	83.2	5.70 B	18	8.86	22
23	5.51	12	5.71	12.4	42	65.0	5.60 B	18	8.85	23
24	5.29	8	3.66	11.6	31	31.1	5.30 B	18	8.24	24
25	5.44	7 S	3.29	10.9	23	21.7	5.20 B	18	8.09	25
26	5.62	7	3.40	10.5	24	21.8	5.00 B	18	7.76	26
27	5.56	10	4.80	10.1	23 S	19.2	4.90 B	18	7.63	27
28	5.76	10	4.98	9.84	20	17.0	4.80 B	18	7.46	28
29	5.45	7	3.30	9.55	19	15.7	4.80 B	18	7.15	29
30	5.11	2 S	0.88	9.37	18	14.6	4.80 B	18	7.00	30
31	4.95	1	0.43				4.40 B	18	6.84	31
TOTAL	160.11		137.54	400.33		3 136.98	281.80		1 036.96	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 26	12:10	0.5	78.8	15.0	DH59	341															
MAR 21	11:30	1.0	27.5	15.0	DH59	113															
MAR 24	16:50		28.4	15.0	DH59	139	309														
MAR 25	17:00		31.1	15.0	DH59	75															
MAR 26	17:10		21.6	15.0	DH59	89															
MAR 27	17:30		28.5	15.0	DH59	178															
MAR 28	18:20		38.9	15.0	DH59	1300	222														
MAR 29	16:20		105	15.0	DH59	30 A	200														
MAR 30	08:30	2.0	95.4	15.0	DH59	581	190														
MAR 30	08:55	2.0	14.9	8.0 M	DH59	432	214														
MAR 30	09:20	2.0	28.2	12.0 M	DH59	470	224														
MAR 30	09:35	2.0	32.1	16.0 M	DH59	592	222														
MAR 30	09:50	2.0	20.6	20.0 M	DH59	880	251														
APR 01	17:10		73.1	15.0	DH59	631															
APR 02	17:00		84.7	15.0	DH59	283															
APR 06	14:30		61.9	15.0	DH59	258	280														
APR 11	15:55		36.3	15.0	DH59	98															
APR 12	16:35		29.4	15.0	DH59	126															
APR 13	17:30		32.3	15.0	DH59	141															
APR 15	14:45		39.3	15.0	DH59	195	257														
APR 17	15:20		31.7	15.0	DH59	125															
APR 19	14:00		31.1	15.0	DH59	1480 A	235														
APR 20	15:30		42.3	15.0	DH59	322	245														
APR 24	11:30	15.0	18.9	15.0	DH59	54															
APR 27	14:30		14.4	15.0	DH59	55															
MAY 01	17:40		11.4	15.0	DH59	47															
MAY 02	18:15		11.1	15.0	DH59	30															
MAY 03	16:11		10.7	15.0	DH59	18	325														
MAY 04	12:00		10.2	15.0	DH59	34															
MAY 05	16:10		11.9	15.0	DH59	78															
MAY 07	17:00		17.2	15.0	DH59	89	313														
MAY 08	09:45	7.0	14.7	15.0	DH59	45															
MAY 11	09:00		10.3	15.0	DH59	34															
MAY 12	08:40		9.46	15.0	DH59	31															
MAY 13	16:40		9.03	15.0	DH59	45															
MAY 14	16:35		8.32	15.0	DH59	45															
MAY 15	16:35		7.97	15.0	DH59	57															
MAY 17	16:30		8.01	15.0	DH59	58															
MAY 21	16:40		7.72	15.0	DH59	50	317														
MAY 22	17:00		7.58	15.0	DH59	53															
MAY 31	09:30	11.5	8.29	15.0	DH59	52															
JUN 02	17:30	13.0	13.9	15.0	DH59	94	336														
JUN 17	17:30	13.0	8.06	15.0	DH59	40															
JUN 21	10:30	12.0	4.84	15.0	DH59	26															
JUN 29	11:30	16.0	3.85	15.0	DH59	24															
JUL 02	14:30	18.0	3.66	15.0	DH59	16															
JUL 03	08:10	15.5	4.20	15.0	DH59	77															
JUL 09	08:35	15.0	4.22	15.0	DH59	85															
JUL 15	13:00	17.0	5.03	15.0	DH59	75	302														
JUL 21	10:00	16.5	3.15	15.0	DH59	73															
JUL 27	14:20	18.0	2.44	15.0	DH59	80															
AUG 08	10:30	16.0	2.17	15.0	DH59	55															
AUG 12	08:30	13.5	2.25	15.0	DH59	44															
AUG 17	10:00	14.0	3.95	15.0	DH59	42	383														
AUG 20	12:45	16.5	4.00	15.0	DH59	58															
SEP 06	18:00	18.0	19.8	15.0	DH59	143	319														
SEP 09	18:20	19.0	9.31	15.0	DH59	163															
SEP 10	17:20	16.0	5.36	15.0	DH59	31															
SEP 13	17:15	12.0	4.69	15.0	DH59	36															
SEP 19	14:10	11.5	4.30	15.0	DH59	23															
SEP 20	17:15	17.0	3.69	15.0	DH59	16															
SEP 23	17:20	16.0	3.62	15.0	DH59	22															
SEP 24	10:00	16.0	3.56	15.0	DH59	31															
SEP 25	16:55	13.0	3.50	15.0	DH59	7															
SEP 27	16:50	9.0	4.68	15.0	DH59	12	341														
OCT 01	09:25	9.0	3.90	15.0	DH59	18															
OCT 02	17:00	11.0	3.89	15.0	DH59	7															
OCT 06	09:00	6.0	4.39	15.0	DH59	5															
OCT 11	16:10	7.0	4.20	15.0	DH59	16															
OCT 13	10:00	8.0	5.06	15.0	DH59	5															
OCT 16	16:45	7.5	5.98	15.0	DH59	9															
OCT 18	16:50	8.0	5.09	15.0	DH59	5															
OCT 25	17:00	8.0	5.68	15.0	DH59	7															
OCT 30	14:30	7.0	5.07	15.0	DH59	1															
NOV 01	17:20	3.0	4.79	15.0	DH59	38 A															
NOV 05	10:00	4.5	10.0	15.0	DH59	137	349														
NOV 09	14:10	1.5	7.95	15.0	DH59	28															
NOV 15	16:30	0.8	26.7	15.0	DH59	163	415														
NOV 19	16:50	2.3	22.5	15.0	DH59	146															
NOV 27	16:50	0.7	10.0	15.0	DH59	21															

NOTE : SINGLE VERTICAL LOCATED AT 8.1 METRES FOR 1985

CONCENTRATION SYMBOL(S): A - CLASSIFIED AS AN ANOMALY
VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

NOTTAWASAGA RIVER NEAR BAXTER - STATION NO. 02ED003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1980	---------P---	MANUAL	32	SEP 10	32	SEP 10	---	---	---	---	---	---
1983	CCCCCCCCCCCC	MANUAL	563	APR 04	2	OCT 18	1 910	MAR 20	27 100	74.3	74.3	---
1984	CCCCCCCCCCCC	MANUAL	695	FEB 18	5	OCT 10	3 620	FEB 17	49 400	135	105	28.9
1985	CCCCCCCCCCCC	MANUAL	1 480	APR 19 *	1	OCT 30 *	10 500	MAR 29 *	89 700 *	191	133	25.3

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PARKHILL CREEK ABOVE PARKHILL RESERVIOR - STATION NO. 02FF008

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 10	12:45	5.0	1.43	MID	DH48	46	359														
MAY 06	11:20	15.0	0.184	MID	DH48	53															
JUN 04	12:00	16.0	0.145	MID	DH48	138	462														
JUL 03	11:00	21.0	0.137	MID	DH48	273	464														
JUL 30	11:30	21.0	0.001	MID	DH48	48	261														
SEP 11	13:45	18.0	1.60	MID	DH48	180	338														
SEP 30	11:30	15.0	0.034	MID	DH48	41	295														
OCT 29	12:30	8.0	0.333	MID	DH48	37	436														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

PARKHILL CREEK ABOVE PARKHILL RESERVIOR - STATION NO. 02FF008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1985	---PPPP-PP--	MANUAL	273	JUL 03 *	37	OCT 29 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PIC RIVER NEAR MARATHON - STATION NO. 02BB003

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 25	15:55	4.0	448	33.0	D49	2810	201	7	9	22	43	64	79	89	97	100			21	70	8
JUL 31	08:20	16.0	68.4	33.0	D49	87	210														
OCT 23	07:18	5.0	73.5	33.0	D49	42	192														

NOTE : SINGLE VERTICAL LOCATED AT 33 METRES FOR 1985

PIC RIVER NEAR MARATHON - STATION NO. 02BB003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM		SAMPLED CONCENTRATION MINIMUM		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD	SUMMARY MEAN LOAD	SUMMARY HISTORICAL MEAN LOAD	SUMMARY STANDARD ERROR OF MEAN %
	(JFMAMJJASOND)		(mg/L)		(mg/L)		(TONNES)		(TONNES)	(TONNES)	(TONNES)	
1985	---P--P--P--	MANUAL	2 610	APR 25 *	42	OCT 23 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

RAISIN RIVER NEAR WILLIAMSTOWN - STATION NO. 02MC001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 24	14:50	12.0	5.35	8.0	DH48	14	285														
MAY 22	15:00	19.0	1.18	8.0	DH48	11	386														
JUN 26	17:30	18.0	4.73	8.0	DH48	9	355														
AUG 01	09:30	21.0	0.185	8.0	DH48	3	478														
NOV 13	14:00	3.0	5.91	8.0	DH48	20	397														
DEC 10	16:35	0.5	1.82	8.0	DH48	7	448														

NOTE : SINGLE VERTICAL LOCATED AT 8 METRES FOR 1985

RAISIN RIVER NEAR WILLIAMSTOWN - STATION NO. 02MC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM		SAMPLED CONCENTRATION MINIMUM		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD	SUMMARY MEAN LOAD	SUMMARY HISTORICAL MEAN LOAD	SUMMARY STANDARD ERROR OF MEAN %
	(JFMAMJJASOND)		(mg/L)		(mg/L)		(TONNES)		(TONNES)	(TONNES)	(TONNES)	
1985	---PPP-P--PP	MANUAL	20	NOV 13 *	3	AUG 01 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

REDHILL CREEK AT HAMILTON - STATION NO. 02HA014

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 22	10:55	4.0	5.67	4.0	DH48	582	985														
MAR 26	11:10	1.0	0.477	4.0	DH48	13	890														
MAR 28	15:45	2.0	8.10	4.0	DH48	2740	452	25	28	35	42	44	46	47	84	97	100		54	18	28
MAY 02	09:48	10.0	0.193	4.0	DH48	4	835														
AUG 14	10:05	22.0	0.044	4.0	DH48	0	974														
SEP 17	13:00	24.0	0.036	4.0	DH48	4	337														
NOV 04	15:45	9.0	26.9	4.0	DH59	1320	312														
DEC 11	12:45	5.0	1.32	4.0	DH59	59															

NOTE : SINGLE VERTICAL LOCATED AT 5.0 METRES FOR 1985

REDHILL CREEK AT HAMILTON - STATION NO. 02HA014

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1985	-PP-P--PP-PP	MANUAL	2 740 MAR 28 *	0 AUG 14 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SALMON RIVER NEAR SHANNONVILLE - STATION NO. 02HM003

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 23	17:40		9.43	MID	SURF	6	176														
MAR 13	09:55		56.8	MID	SURF	18	152														
MAR 27	12:35		28.8	MID	SURF	3	106														
MAY 29	10:30	15.0	3.95	MID	DH48	4	143														
JUN 12	13:00		2.24	MID	DH48	9	237														
SEP 11	10:30	16.0	5.45	MID	DH48	29	223														
OCT 24	12:25	11.0	3.79	MID	DH48	3	235														
NOV 05	11:15	8.0	15.4	8.0	DH59	5	255														
NOV 13	14:40	5.0	27.2	8.0	DH59	13	251														
DEC 05	14:30	1.0	16.1	8.0	DH59	1	221														

NOTE : SINGLE VERTICAL LOCATED AT 8 METRES FOR 1985

SALMON RIVER NEAR SHANNONVILLE - STATION NO. 02HM003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1985	-PP-PP--PPPP	MANUAL	29 SEP 11 *	1 DEC 05 *	--- ---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SEVERN RIVER AT LIMESTONE RAPIDS - STATION NO. 04CC001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUN 01	09:00	7.0	1680	10LB	D49	52	149														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

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SEVERN RIVER AT LIMESTONE RAPIDS - STATION NO. 04CC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1975	----P-------	MANUAL	77	MAY 05 *	45	MAY 04	---	---	---	---	---	---
1978	-----P--P---	MANUAL	14	JUN 03	8	SEP 19	---	---	---	---	---	---
1979	------P-P---	MANUAL	18	JUL 25	13	SEP 28	---	---	---	---	---	---
1980	----P-P-----	MANUAL	22	MAY 22	12	JUL 03	---	---	---	---	---	---
1984	-----P--P---	MANUAL	15	JUN 01	8	SEP 22 *	---	---	---	---	---	---
1985	-----P------	MANUAL	52	JUN 01	52	JUN 01	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE009

SUSPENDED SEDIMENT FOR 1985

LOCATION LAT 43 41 04 N LONG 81 32 38 W
DRAINAGE AREA 276 km²
TYPE OF FLOW NATURAL
TYPE OF GAUGE RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 21 700 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	32.6	165	465	0.810 B	99	6.93	43.0	64	201	1
2	29.1	181	455	0.809 B	96	6.71	35.5	51	156	2
3	22.6 B	180 S	312	0.808 B	94	6.56	31.0 B	50	134	3
4	18.0 B	158	246	0.807 B	91	6.34	22.2 B	49	94.0	4
5	8.00 B	155	107	0.806 B	89	6.20	17.7 B	48	73.4	5
6	4.90 B	152	64.4	0.805 B	85	5.91	17.0 B	46	67.6	6
7	3.20 B	150	41.5	0.804 B	79	5.49	16.0 B	45	62.2	7
8	2.20 B	149	28.3	0.803 B	73	5.06	14.8	44	56.6	8
9	1.85 B	145	20.7	0.802 B	68	4.71	18.7	44	74.9	9
10	1.43 B	143	17.7	0.830 B	63	4.52	21.8	43	81.4	10
11	1.32 B	142	16.2	0.870 B	61	4.59	23.9	54	112	11
12	1.24 B	140	15.0	1.20 B	64	6.64	40.6	72 S	253	12
13	1.15 B	139	13.8	1.70 B	71	10.4	45.6	35 S	138	13
14	1.10 B	136	12.9	2.20 B	80	15.2	38.7	18 S	61.7	14
15	1.05 B	134	12.2	2.35 B	83	16.9	35.3	16 S	48.8	15
16	1.02 B	134	11.8	2.32 B	77	15.4	30.0	19	49.2	16
17	0.980 B	130	11.0	2.15 B	70	13.0	31.5	19	51.7	17
18	0.950 B	127	10.4	1.95 B	67 S	11.3	28.4	18 S	44.2	18
19	0.930 B	124	9.96	1.90 B	63	10.3	21.2	16	29.3	19
20	0.910 B	124	9.75	1.80 B	60	9.33	21.6	20 S	37.3	20
21	0.890 B	122	9.38	1.80 B	60	9.85	21.3	15 S	27.6	21
22	0.880 B	120	9.12	8.00 B	104	71 B	19.9	9	15.5	22
23	0.874 B	118 S	8.99	40.0 B	201 E	695	23.4	13	26.3	23
24	0.880 B	117	8.88	99.0 B	133 E	1 140	23.8	11 S	22.6	24
25	0.850 B	114	8.37	92.0 B	91 E	723	20.3	11 S	19.3	25
26	0.845 B	113	8.25	85.8	78	579	17.1	12	17.7	26
27	0.840 B	110	7.98	71.0	67	411	32.7	132 S	373	27
28	0.835 B	108	7.78	62.5	59	319	80.9	282 S	2 060	28
29	0.830 B	106	7.60				96.5	110	917	29
30	0.825 B	104	7.41				70.0	44 S	266	30
31	0.820 B	101	7.18				49.2	27	115	31
TOTAL	143.679		1 971.35	486.824		4 120.24	1 021.8		5 688.3	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	43.1	22 S	81.9	1.52	28	3.68	2.80	40	10.0	1
2	32.0	17 S	47.0	1.43	24	2.97	2.11	32	5.83	2
3	24.7	18 S	38.4	1.33	21 S	2.41	1.56	29	3.91	3
4	23.3	86	197	1.26	21	2.29	1.28	28	3.10	4
5	77.9	351 S	2 360	1.70	37	5.43	1.13	27	2.64	5
6	80.9	220	1 540	1.93	28	4.84	1.03	27	2.40	6
7	52.5	123 S	558	1.74	23	3.46	0.926	27 S	2.16	7
8	37.4	73	236	1.51	19	2.46	0.869	27	2.03	8
9	27.0	43	100	1.30	18	2.02	0.843	26	1.98	9
10	19.0	32 S	52.5	1.23	17	1.81	0.834	25	1.80	10
11	14.3	41	50.7	1.15	16	1.59	0.747	25	1.61	11
12	12.0	46	47.7	1.09	15	1.41	0.712	25	1.54	12
13	10.1	56	48.9	1.08	15 S	1.40	0.716	24	1.48	13
14	9.50	64 S	53.0	1.02	24	2.12	0.628	24	1.30	14
15	8.38	55	39.9	0.952	35 S	2.91	0.649	23	1.09	15
16	6.99	51 S	30.8	1.00	35	3.02	1.81	31	5.12	16
17	5.30	49	22.4	0.988	32	2.73	15.7	87	90.9	17
18	4.43	50	19.1	0.884	28	2.42	20.3	33 S	57.9	18
19	4.19	59	21.4	0.800	27	2.10	13.6	21	24.7	19
20	4.11	57 S	20.2	0.988	46	3.85	6.16	18	9.58	20
21	3.50	44	13.3	1.45	59 S	7.39	2.82	17	4.14	21
22	3.02	33	8.61	1.20	38	3.94	2.36	36	7.34	22
23	2.68	26 S	6.02	0.970	28	2.43	3.81	52 S	17.1	23
24	2.44	29	6.11	0.851	26	1.81	2.59	27	6.04	24
25	2.44	40	8.43	0.784	25	1.69	1.77	18	2.75	25
26	2.22	38	7.29	0.937	31	2.51	1.41	14 S	1.71	26
27	1.89	41	7.05	5.21	63 S	28.4	1.20	14	1.45	27
28	1.87	48 S	7.76	9.74	96	80.8	1.01	14	1.22	28
29	1.74	42	6.31	5.88	55	27.9	0.885	14	1.07	29
30	1.60	33	4.56	3.35	31	8.97	0.815	14	0.99	30
31				2.75	38	9.03				31
TOTAL	520.70		5 640.34	58 194		229.91	93.214		274.88	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE009

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.738	13	0.83	0.247	5	0.11	24.8	103	222	1
2	0.688	13	0.75	0.236	5 S	0.10	17.8	81 S	123	2
3	0.646	13	0.73	0.210	5	0.09	10.1	41	35.8	3
4	0.618	14	0.75	0.198	5	0.09	4.71	17	6.92	4
5	0.593	15	0.77	0.193	5	0.08	9.84	44 S	26.3	5
6	0.616	17	0.90	0.227	7	0.14	18.7	57	97.0	6
7	0.576	14	0.70	0.276	13	0.31	16.7	31	44.7	7
8	7.00	87	52.6	0.452	19	0.74	12.8	22	24.0	8
9	14.0	63	76.2	0.500	19	0.82	10.2	16	14.1	9
10	8.37	29	21.0	0.425	18	0.59	10.0	62	53.6	10
11	2.95	19	4.84	0.334	11 S	0.32	11.8	105	107	11
12	1.71	14	2.07	0.256	7	0.15	7.80	82	55.3	12
13	1.27	12	1.32	0.227	4	0.08	4.40	72	27.4	13
14	1.07	18	1.66	0.203	3 S	0.05	2.87	66	16.4	14
15	1.08	24	2.24	0.802	9	0.39	2.16	62	11.6	15
16	1.01	21	1.83	3.73	38 S	12.2	1.77	58 S	8.87	16
17	0.807	16	1.26	2.01	10	1.74	1.51	54	7.05	17
18	0.636	16	0.88	1.25	12	1.30	1.35	53	6.18	18
19	0.559	15	0.72	2.84	31	7.61	1.25	50	5.40	19
20	0.514	13	0.58	2.50	19	4.10	1.05	44	3.99	20
21	0.468	11 S	0.44	1.26	12	1.31	0.923	40	3.19	21
22	0.416	11	0.40	0.826	9	0.84	0.857	36	2.67	22
23	0.381	10	0.33	0.610	8	0.42	0.770	34	2.26	23
24	0.349	9	0.27	0.866	17	1.27	0.821	37	2.62	24
25	0.307	9	0.24	2.08	41 S	7.37	0.758	31	2.02	25
26	0.330	9	0.26	3.25	48	13.5	0.781	30	2.02	26
27	0.324	8	0.22	8.53	91	74.8	0.821	32	2.27	27
28	0.282	8 S	0.19	8.04	45	31.3	0.814	27	1.90	28
29	0.259	7	0.16	3.75	25	8.10	0.735	22	1.40	29
30	0.238	7	0.14	11.7	68	68.7	0.647	22	1.23	30
31	0.243	6	0.13	23.4	131	265				31
TOTAL	49.018		175.41	82.130		503.52	175.935		925.19	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.695	26	1.56	2.72	13	3.06	7.75	34	22.8	1
2	0.717	23	1.42	2.36	12	2.47	22.4	46	89.0	2
3	0.658	18	1.02	2.59	13	2.91	20.0	18	31.1	3
4	0.596	18	0.93	6.13	40	21.2	18.3	11	14.5	4
5	0.632	21	1.15	14.9	53	68.2	9.71	9	7.85	5
6	0.856	27	2.00	16.6	22	31.6	7.40	8	5.11	6
7	1.11	33	3.16	12.6	14 S	15.2	6.22	7	3.76	7
8	1.09	29	2.73	12.0	14	14.5	5.73	7 S	3.47	8
9	1.34	27	3.13	10.3	16	14.2	5.37	6	2.76	9
10	2.32	36	7.22	23.9	57	118	5.80	7	3.33	10
11	3.93	48	16.3	25.8	26	58.0	7.10	11 S	6.75	11
12	4.59	44	17.4	20.0	13	22.5	9.06	18	14.1	12
13	10.3	63	56.1	24.9	39	83.9	8.19	15	10.6	13
14	9.48	39 S	31.8	29.1	42	106	6.60 B	12	6.84	14
15	6.54	29	16.4	28.5	24	59.1	4.80 B	11	4.66	15
16	6.88	56	33.3	23.0	9	17.9	4.40 B	11	4.18	16
17	7.22	65	40.5	20.5	3 S	5.31	4.10 B	11	3.90	17
18	5.47	56 S	26.5	17.5	3	4.55	3.80 B	10	3.28	18
19	11.6	83	83.2	18.3	15	25.0	3.50 B	10	3.02	19
20	19.4	80 S	101	24.0	24	49.8	3.30 B	9	2.57	20
21	16.4	31	43.9	20.3	12	21.0	3.10 B	9	2.41	21
22	10.4	19	17.1	13.4	8	9.26	2.80 B	9	2.18	22
23	5.97	18	9.28	8.59	6	4.45	2.70 B	9	2.10	23
24	13.1	111	126	6.60	5	2.85	2.80 B	9	2.18	24
25	25.9	114	255	5.39	4	1.86	3.00 B	9	2.33	25
26	21.2	77	141	5.18	5	2.24	2.90 B	9	2.26	26
27	13.8	63 S	83.2	8.36	13	7.14	2.80 B	9	2.18	27
28	7.25	38	22.6	7.71	13	12.7	2.70 B	9	2.10	28
29	4.67	24	9.86	7.25	16	10.0	2.60 B	8	1.80	29
30	3.81	18	5.93	8.40	9	4.98	2.55 B	8	1.76	30
31	3.19	14	3.85				2.50 B	8	1.73	31
TOTAL	221.114		1 144.47	424.00		799.89	190.78		266.33	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SOUTH MAITLAND RIVER AT SUMMERHILL - STATION NO. 02FE005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)		DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 03	16:00	0.1	22.6	W	28.0	DH59	159																
JAN 23	13:10	0.1	0.893		28.0	DH59	119		87														
FEB 18	13:05	0.1	1.84		28.0	DIP	67		271														
MAR 12	11:40	0.1	44.0		28.0	DH59	75																
MAR 13	09:00	0.1	48.0		28.0	DH59	39		271														
MAR 14	09:00	0.1	36.3		28.0	DH59	18																
MAR 15	10:00	0.1	35.6		28.0	DH59	16																
MAR 18	15:00		25.3		28.0	DH59	19																
MAR 20	18:30		32.0		28.0	DH59	20																
MAR 21	18:30		43.0		28.0	DH59	12																
MAR 24	19:00		23.1		28.0	DH59	10																
MAR 25	17:00		19.1		28.0	DH59	11																
MAR 27	18:00		46.6		28.0	DH59	213		230														
MAR 28	18:00		116		28.0	DH59	273		183														
MAR 30	13:10	3.5	55.8		28.0	DH59	38		171														
APR 01	18:00		40.1		28.0	DH59	16																
APR 02	18:00		29.6		28.0	DH59	18																
APR 03	13:40	2.0	24.6		28.0	DH59	16																
APR 05	15:20		22.6		28.0	DH59	346		218	42	51	71	82	92	95	99	100				5	44	51
APR 07	17:00		48.0		28.0	DH59	111		235														
APR 10	11:00	2.0	18.9		28.0	DH59	33																
APR 14	13:00		9.48		28.0	DH59	63																
APR 16	15:00		6.46		28.0	DH59	51																
APR 20	11:30		3.55		28.0	DH59	58																
APR 23	19:00		2.60		28.0	DH59	24																
APR 28	12:00		1.80		28.0	DH59	49		305														
MAY 03	18:00		1.71		28.0	DH59	21																
MAY 13	10:20		1.06		28.0	DH59	14																
MAY 15	13:15	18.0	0.980		28.0	DH59	36																
MAY 21	09:40		1.58		28.0	DH59	61		286														
MAY 27	18:00		7.01		28.0	DH59	73																
JUN 07	18:00		0.909		28.0	DH59	27																
JUN 18	18:00		19.2		28.0	DH59	25		446														
JUN 23	11:30		4.34		28.0	DH59	51																
JUN 26	11:35	18.0	1.41		28.0	DH59	14																
JUN 30	12:00		0.775		28.0	DH59	41	A															
JUL 21	11:00		0.432		28.0	DH59	37	A															
JUL 28	11:00		0.297		28.0	DH59	8		312														
AUG 02	17:00		0.225		28.0	DH59	5																
AUG 11	11:00		0.348		28.0	DH59	11																
AUG 14	12:00	21.0	0.192		28.0	DH59	3																
AUG 18	12:00		4.73		28.0	DH59	39		235														
AUG 25	11:00		1.78		28.0	DH59	37																
SEP 02	18:00		35.6		28.0	DH59	74																
SEP 05	11:00		2.22		28.0	DH59	17																
SEP 18	13:45		1.73		28.0	DH59	57																
OCT 14	10:00		10.3		28.0	DH59	39																
OCT 18	12:45		5.32		28.0	DH59	95																
OCT 20	11:00		19.8		28.0	DH59	80																
OCT 27	11:00		14.2		28.0	DH59	54																
NOV 07	12:50	8.5	12.1		28.0	DH59	13																
NOV 17	11:00	5.0	20.8		28.0	DH59	3		431														
DEC 08	10:30		5.74		28.0	DH59	7																
DEC 11	12:45	3.0	7.17		28.0	DH59	10																

NOTE SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

DISCHARGE SYMBOL(S) W - DAILY MEAN, ICE CONDITIONS
CONCENTRATION SYMBOL(S) A - CLASSIFIED AS AN ANOMALY

ONTARIO

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 45 30 23 N LONG 74 57 20 W
DRAINAGE AREA: 3 810 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 143 000 TONNES FOR THE PERIOD MAR 01 TO JUN 10

REMARKS: SEASONAL STATION 1985

DAY	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	DAY
1	159	29	398	193	235 S	3 920	15.9	30	41.2	1
2	173 B	41	613	157	231	3 130	14.1	30	36.5	2
3	236 B	71	1 450	174	273 S	4 100	13.4	28	33.6	3
4	224	140	2 710	203	291 S	5 100	12.3	30 S	31.9	4
5	179	76	1 180	266	253	5 810	12.7	31	34.0	5
6	137	68	788	386	153	4 840	18.5	36	61.0	6
7	101	73	637	350	46 S	1 390	27.6	43	103	7
8	78.9	51	348	255	27	595	28.3	41	100	8
9	67.3	40	233	171	29	428	25.4	32	70.2	9
10	64.5	40	223	114	35 S	345	21.8	27 S	50.9	10
11	70.9	47	288	85.1	42	308	19.0	29	47.8	11
12	122	89	938	77.2	35	233	17.9	32	49.5	12
13	322	172	4 790	66.5	30 S	172	16.2	36	50.4	13
14	426	239 S	8 800	53.1	27	124	13.9	35	42.0	14
15	452	253 S	9 880	50.0	27	117	13.0	34 S	38.2	15
16	431	235	8 750	57.3	29	144	12.1	31 S	32.4	16
17	387	232	7 760	56.4	27	132	11.0	31	29.5	17
18	318	240 S	6 590	42.8	32 S	118	10.3	31	27.8	18
19	232	217	4 350	77.7	83	557	9.43	30	24.4	19
20	175	157	2 370	103	95	845	8.37	32	23.1	20
21	151	137 S	1 790	81.6	73	515	7.63	34	22.4	21
22	126	132	1 440	65.0	59	331	7.24	34	21.3	22
23	116	188 S	1 980	48.0	48 S	199	6.80	35 S	20.0	23
24	149	286	3 810	36.3	37	115	5.58	34	16.4	24
25	170	247	3 630	28.4	29 S	71.2	4.37	31	11.7	25
26	153	200 S	2 640	23.4	25	50.5	3.86	29	8.67	26
27	136	162	1 900	26.8	33	76.4	4.37	30	11.3	27
28	227	204 S	4 000	22.8	30	59.1	4.75	32	13.1	28
29	384 B	309	9 720	20.1	30 S	52.1	4.62	32	12.8	29
30	418 B	230 S	8 310	19.7	30	51.1	4.25	30	11.0	30
31	314	202	5 480				3.65	29	9.15	31
TOTAL	6 679.6		107 777	3 290.2		33 930.4	379.22		1 085.82	TOTAL

DAY	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.63	31	12.1							1
2	4.91	30	12.7							2
3	4.74	29	11.9							3
4	4.07	27	9.48							4
5	3.29	27	7.67							5
6	3.25	28	7.86							6
7	3.63	30	8.41							7
8	3.54	30	8.18							8
9	3.91	30	10.1							9
10	3.53	30 S	9.15							10
11	3.29									11
12	3.03									12
13	3.50									13
14	3.52									14
15	3.67									15
16	3.37									16
17	3.47									17
18	8.33									18
19	13.8									19
20	14.4									20
21	10.6									21
22	7.95									22
23	8.49									23
24	9.87									24
25	13.5									25
26	15.8									26
27	14.8									27
28	11.2									28
29	8.11									29
30	9.08									30
31										31
TOTAL	210.28		99.56							TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 14	10:00	0.1	419	20.4	D49	418 A															
MAR 14	10:15	0.1	418	20.4	D49	240															
MAR 14	16:10	0.1	437	20.4	D49	243	274														
MAR 15	10:30	0.1	452	20.4	D49	252															
MAR 15	16:30	0.1	456	20.4	D49	240															
MAR 18	16:00	0.1	294	20.4	D49	244															
MAR 21	16:30	0.1	139	20.4	D49	131	227														
MAR 23	16:00	0.1	114	20.4	D49	244															
MAR 26	15:15	0.1	149	20.4	D49	188															
MAR 28	16:30	0.1	243	20.4	D49	218															
MAR 30	12:40	2.0	99.2	25.0 M	D49	208	226														
MAR 30	13:10	2.0	122	45.0 M	D49	216	211														
MAR 30	13:40	2.0	90.4	85.0 M	D49	186	205														
MAR 30	14:10	2.0	84.1	80.0 M	D49	241	238														
MAR 30	14:45	2.0	47.7	95.0 M	D49	175	190														
MAR 30	15:05	2.0	444	20.4	D49	209															
APR 01	17:00	1.0	112	20.4	D49	238	302														
APR 03	16:00	1.0	176	20.4	D49	260															
APR 04	16:45	2.0	265	20.4	D49	298	237														
APR 07	12:00	5.0	353	20.4	D49	31															
APR 10	16:30	7.0	107	20.4	D49	38															
APR 13	13:00	9.0	88.8	20.4	D49	30	343														
APR 18	16:00	10.0	42.1	20.4	D49	34															
APR 23	10:30	11.0	49.3	20.4	D49	49															
APR 25	18:15	13.0	26.5	20.4	D49	27	257														
APR 29	16:00	14.0	20.0	20.4	D49	31															
MAY 04	14:15	15.0	11.0	20.4	D49	30															
MAY 10	17:30	16.0	20.1	20.4	D49	27															
MAY 15	08:15	16.0	12.2	6.5	DH48	35															
MAY 18	18:00	17.0	11.7	20.4	D49	31															
MAY 23	16:30	18.0	6.10	20.4	D49	35	341														
JUN 10	14:10	22.0	3.33	6.5	DH48	30	350														
AUG 06	09:55	25.0	1.14	6.0	DH48	26															
OCT 25	08:00	10.0	5.86	8.7	DH48	47	419														
NOV 21	13:15	4.0	28.3	3.0	DH48	24															

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

CONCENTRATION SYMBOL(S): A - CLASSIFIED AS AN ANOMALY
VERTICAL SYMBOL(S): M - A SEDIMENT MEASUREMENT VERTICAL

SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS - STATION NO. 02LB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MAR-AUG MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1972	CCCCCCCCCCCC	DUAL	998	APR 13	14	MAY 17	38 000	APR 18	515 000	2 030	2 030	---
1973	CCCCCCCCCCCC	DUAL	887	MAY 19	18	JAN 02	23 800	MAY 19	308 000	1 500	1 770	15.0
1974	CCCCCCCCCCCC	DUAL	612	APR 06	15	JAN 11	35 600	APR 06	293 000	1 510	1 680	10.4
1975	CCCCCCCC----	DUAL	295	APR 15	4	MAR 25 *	9 260	APR 20	83 500	437	1 370	24.4
1976	CCCCCCCC----	MANUAL	5 890	MAY 21 *	11	MAR 08	157 000	MAY 20 *	536 000 *	2 810	1 680	24.0
1977	P-CCCCCP-CCC	MANUAL	147	MAR 17	15	DEC 19	9 640	MAR 17	96 200	---	---	---
1978	CCCCPPPPPPP-	MANUAL	435	APR 13	18	FEB 15	31 400	APR 14	210 000	---	---	---
1979	P-CCCCCCCCCC	MANUAL	425	MAR 24	19	JAN 04	20 700	MAR 25	192 000	784	1 530	23.5
1980	--CCCCP-----	MANUAL	829	APR 10	22	MAR 13	26 600	APR 10	153 000	---	---	---
1981	-PCCCCCPPPP	MANUAL	642	JUN 23	12	MAR 21	47 700	FEB 22	248 000	394	1 370	25.2
1982	CCCCCCCCCCC	MANUAL	854	APR 01	12	JAN 12	31 800	APR 01	225 000	1 010	1 320	22.8
1983	CCCCCCCCCCC	MANUAL	87	APR 10	18	JAN 21	4 750	MAY 03	105 000	430	1 220	23.3
1984	P-CCCCPPP-PP	MANUAL	458	APR 06	10	MAR 15	23 100	APR 06	102 000	---	---	---
1985	--CCCP-P-PP-	MANUAL	418	MAR 14	24	NOV 21	9 880	MAR 15	143 000	---	---	---

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

SYDENHAM RIVER AT FLORENCE - STATION NO. 02GG003

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP.	INSTANT. DISCHARGE	SINGLE SAMPLING VERTICAL		TYPE OF SAMPLER	INSTANT. CONCENT.	DISSOLVED SOLIDS	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES								PERCENT		
									.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	SAND	SILT	CLAY
		(C)	(m^3/s)	(m)			(mg/L)	(mg/L)														
APR 25	13:10	17.0	5.24	0.0	X	DH48	57	332														
APR 30	13:50	17.0	4.83	0.0	X	DH48	422	698														
MAY 13	14:10	21.0	2.65	0.0	X	DH48	55	345														
JUL 05	15:00	25.0	1.60	0.0	X	DH48	48	436														
AUG 01	14:20	25.0	0.819	0.0	X	DH48	50	385														
NOV 06	17:25	9.0	69.0	26.0		DH59	144	449														
NOV 18	15:50		31.1	26.0		DH59	93	441														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

SYDENHAM RIVER AT FLORENCE - STATION NO. 02GG003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY	TYPE OF SAMPLING	SAMPLED CONCENTRATION				SUSPENDED SEDIMENT LOAD			SUMMARY		
			MAXIMUM		MINIMUM		MAXIMUM DAILY		TOTAL FOR PERIOD	MEAN LOAD	HISTORICAL MEAN LOAD	STANDARD ERROR OF MEAN %
	(JFMAMJJASOND)		(mg/L)		(mg/L)		(TONNES)		(TONNES)	(TONNES)	(TONNES)	
1985	---PP-PP--P-	MANUAL	422	APR 30 *	48	JUL 05 *	---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 43 12 55 N LONG 80 41 24 W
DRAINAGE AREA: 149 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 10 300 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	6.87	126	72.0	0.438 B	3	0.11	7.00 B	52	31.4	1
2	12.2	124	131	0.420 B	4	0.16	7.30 B	57	36.0	2
3	4.58	39	15.4	0.420 B	6	0.18	6.30 B	41	22.3	3
4	2.86	34	5.93	0.422 B	8	0.29	5.50 B	44	20.9	4
5	2.03	18	3.18	0.420 B	6	0.22	6.80 B	53	30.3	5
6	1.57	13	1.76	0.413 B	6	0.21	5.98	43	22.2	6
7	1.34	11	1.27	0.400 B	6	0.21	4.05	33	11.6	7
8	0.923	12	0.86	0.390 B	4	0.13	5.79	46	23.0	8
9	1.19	11 S	1.13	0.385 B	4	0.13	13.0	84	84.3	9
10	0.921	13	1.03	0.382 B	4	0.13	12.9	80	89.2	10
11	0.913	12	0.95	0.390 B	5	0.17	15.8	97	133	11
12	0.868	8	0.60	0.420 B	7	0.25	24.1	132 S	275	12
13	0.836	5	0.36	0.460 B	14	0.56	15.2	91	67.0	13
14	0.828	4	0.29	0.435 B	7	0.26	12.2	75	78.1	14
15	0.759	3	0.20	0.405 B	5	0.17	13.6	88	78.9	15
16	0.685	2	0.12	0.380 B	4	0.13	8.89	41	35.0	16
17	0.738	4	0.26	0.352 B	3	0.09	13.0	72	80.8	17
18	0.780 B	6	0.40	0.335 B	2 S	0.06	5.78	29	14.5	18
19	0.780 B	10	0.66	0.323 B	3	0.08	4.38	23	8.70	19
20	0.752	8	0.52	0.315 B	5	0.14	6.24	38 S	20.5	20
21	0.507	5	0.22	0.310 B	7 S	0.19	5.83	26 S	12.6	21
22	0.360	5	0.16	0.300 B	17	0.73	4.82	18 S	7.91	22
23	0.307	7	0.19	3.00 B	81	13.2	5.67	21 S	10.1	23
24	0.290	8	0.23	40.0 B	100	346	4.00	11 S	3.80	24
25	0.289	8	0.20	49.1	61 S	259	2.83	9 S	2.20	25
26	0.310	7	0.19	25.4	68 S	149	2.71	12 S	2.81	26
27	0.435	5	0.19	16.4	65	92.1	7.38	112 S	71.4	27
28	0.564	6	0.29	9.20 B	65	51.7	25.6	378 S	836	28
29	0.513 B	4 S	0.18				17.2	102 S	152	29
30	0.490 B	3	0.13				10.0	37 S	32.0	30
31	0.460 B	3	0.12				9.49	77 S	63.1	31
TOTAL	46.728		240.10	151.813		915.58	289.95		2 370.62	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	20.3	122 S	214	0.565	11 S	0.54	0.391	18	0.61	1
2	8.83	67 S	51.1	0.433	12 S	0.45	0.235	13	0.26	2
3	7.10	35 S	21.6	0.385	13 S	0.43	0.181	10	0.16	3
4	8.90	81 S	62.3	0.363	12 S	0.38	0.160	8	0.11	4
5	25.8	934 S	2 070	0.379	13 S	0.43	0.155	10	0.13	5
6	20.2	547 S	955	0.435	14 S	0.53	0.137	10	0.12	6
7	9.06	174 S	136	0.431	16 S	0.60	0.123	9	0.10	7
8	5.77	64 S	31.8	0.356	17 S	0.52	0.123	11	0.12	8
9	3.85	25 S	8.32	0.310	19 S	0.51	0.134	13	0.16	9
10	2.73	16 S	3.77	0.307	21 S	0.56	0.142	14	0.17	10
11	2.40	8 S	1.66	0.302	22 S	0.57	0.130	12	0.12	11
12	2.08	4 S	0.72	0.286	24 S	0.59	0.185	17	0.27	12
13	1.77	3	0.46	0.290	23 S	0.56	0.195	13 S	0.22	13
14	1.61	4	0.56	0.276	24 S	0.57	0.153	10 S	0.13	14
15	1.44	5	0.62	0.281	23 S	0.52	0.134	9	0.10	15
16	1.23	3	0.32	0.260	27 S	0.61	0.203	11	0.19	16
17	0.955	4	0.33	0.259	24 S	0.54	0.617	42	2.24	17
18	0.880	7	0.53	0.260	21 S	0.47	5.99	142	73.5	18
19	1.03	25	2.22	0.263	17 S	0.37	2.05	23	4.07	19
20	1.14	48	4.73	0.230	15 S	0.30	1.12	25	2.42	20
21	1.03	45	4.00	0.263	16 S	0.39	0.758	30	1.96	21
22	0.930	42 S	3.34	0.290	15 S	0.38	0.868	51	3.82	22
23	0.855	38	2.88	0.208	4 S	0.07	2.69	89	20.7	23
24	0.849	88 S	4.98	0.180	4	0.06	1.14	17	1.67	24
25	1.26	53 S	5.77	0.144	6	0.07	0.898	20	1.21	25
26	1.07	26 S	2.40	0.167	6	0.12	0.505	28	1.22	26
27	0.884	22 S	1.68	0.364	21	0.66	0.387	27	0.90	27
28	0.810	18 S	1.26	0.431	12 S	0.45	0.322	22	0.61	28
29	0.754	19 S	1.24	0.278	14	0.34	0.271	25	0.59	29
30	0.680	14 S	0.82	0.218	9	0.17	0.279	35	0.84	30
31				0.246	12	0.26				31
TOTAL	135.987		3 594.42	9.420		13.02	20.470		118.72	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ONTARIO

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.229	33	0.65	0.116	22 S	0.22	1.84	208 S	29.5	1
2	0.216	29	0.55	0.091	26 S	0.20	1.26	209 S	22.8	2
3	0.210	25	0.45	0.079	24 S	0.16	1.05	206 S	18.7	3
4	0.180	22	0.34	0.072	22 S	0.14	0.850	194 S	14.2	4
5	0.162	25	0.35	0.059	23 S	0.12	1.74	251 S	37.7	5
6	0.440	77	2.93	0.052	24 S	0.11	2.64	185 S	42.2	6
7	1.35	71	8.28	0.461	76 S	3.03	1.82	184 S	28.9	7
8	11.2	305 S	295	12.7	312 S	342	1.32	226 S	25.8	8
9	8.80	226 S	134	2.18	80	15.1	2.46	213 S	45.2	9
10	2.14	142 S	26.3	1.03	28	2.49	2.86	260	63.9	10
11	1.22	101 S	10.6	0.885	24	1.38	2.78	179	42.7	11
12	0.929	92 S	7.38	0.401	12	0.42	1.58	105	14.3	12
13	0.701	91 S	5.51	0.308	10 S	0.27	1.09	87	8.31	13
14	1.06	121 S	11.1	0.288	14 S	0.32	0.870	47	3.53	14
15	1.76	125 S	19.0	0.345	55 S	1.64	0.706	37	2.26	15
16	2.23	90 S	17.3	0.504	46 S	2.00	0.623	32	1.72	16
17	0.894	85 S	7.83	0.338	60 S	1.76	0.549	26	1.23	17
18	0.619	114 S	6.10	0.257	68 S	1.51	0.465	22	0.88	18
19	0.486	112 S	4.70	0.443	67 S	2.56	0.413	23	0.82	19
20	0.503	84 S	3.85	0.383	67 S	2.10	0.373	22	0.71	20
21	0.372	85 S	2.73	0.252	81 S	1.76	0.348	21	0.63	21
22	0.286	87 S	2.15	0.209	68 S	1.23	0.316	18	0.49	22
23	0.245	60 S	1.28	0.188	67 S	1.09	0.304	15	0.39	23
24	0.216	43 S	0.80	0.863	81 S	5.06	0.330	27	0.77	24
25	0.187	46 S	0.74	2.01	56 S	9.73	0.337	21	0.61	25
26	0.163	65 S	0.92	15.6	142 S	191	0.331	22	0.61	26
27	0.151	40 S	0.55	17.9	56 S	86.6	0.337	32	0.93	27
28	0.136	25 S	0.29	5.13	57 S	25.3	0.298	20	0.51	28
29	0.117	21 S	0.21	2.83	136 S	30.9	0.271	15	0.35	29
30	0.110	20 S	0.19	2.50	200 S	44.8	0.261	12	0.27	30
31	0.117	19 S	0.19	2.70	212 S	49.5				31
TOTAL	35.504		572.09	70.912		824.61	30.290		409.02	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.333	17	0.49	0.741	16	1.02	4.74	34	13.9	1
2	0.338	10	0.28	0.710	16	0.98	16.2	82	81.4	2
3	0.295	10	0.25	0.923	20	1.59	5.25	8	3.63	3
4	0.291	9	0.23	7.93	67	45.9	3.07	6	1.59	4
5	0.358	5	0.15	17.4	80 S	90.2	2.50	5	1.08	5
6	0.384	2	0.07	8.91	21 S	12.5	2.19	4	0.75	6
7	0.362	1 S	0.03	4.06	18	6.31	2.01	3	0.52	7
8	0.348	0	0	3.40	18	5.58	1.88	1	0.16	8
9	0.383	3	0.10	3.04	28	7.35	1.74	0 S	0	9
10	0.462	11	0.46	18.2	134	222	1.61	3	0.67	10
11	0.484	8	0.32	10.2	39	34.4	2.78	15	3.80	11
12	0.785	23	1.52	4.74	28	11.9	3.10	10	2.68	12
13	4.20	111	40.3	9.60	70	58.1	2.60	4	0.90	13
14	3.62	30	9.79	12.0	53	53.9	2.11	1	0.18	14
15	1.91	24	3.96	12.3	26	27.4	1.34	0	0	15
16	1.61	18	2.50	6.61	33	18.6	1.25 B	0	0	16
17	1.29	12	1.34	6.81	29	22.1	1.18 B	0	0	17
18	1.45	39	4.89	5.29	18	8.23	1.14 B	1	0.10	18
19	12.9	255	284	10.0	31	26.6	1.13 B	0	0	19
20	8.03	83	64.5	7.22	17	10.6	1.12 B	0	0	20
21	3.63	29	9.10	4.15	15	5.38	1.12 B	1	0.10	21
22	2.48	18	3.81	3.02	13	3.13	1.13 B	0	0	22
23	1.84	18	3.02	2.46	11	2.36	1.13 B	0	0	23
24	1.75	36	5.44	2.31	13	2.59	1.14	0	0	24
25	1.80	37	5.11	2.02	10	1.75	1.00	1	0.09	25
26	1.32	23	2.62	2.24	14	2.71	0.954	1	0.08	26
27	1.17	23	2.33	3.23	18	5.02	0.960	1	0.08	27
28	1.01	22	1.92	3.44	15	4.46	0.832	0	0	28
29	0.859	23	1.71	2.70	13	3.03	0.800 B	1	0.07	29
30	0.818	20	1.41	2.85	11	2.42	0.770 B	0	0	30
31	0.768	19	1.36				0.760 B	0	0	31
TOTAL	56.127		449.92	179.024		696.31	88.716		111.39	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 09	14:00	0.1	0.897	12.0	PS82	21															
JAN 09	14:01	0.1	0.897	12.0	DH48	11	488														
JAN 29	13:30	0.1	0.513	12.0	PS82	6															
JAN 29	13:31	0.1	0.513	12.0	DH48	3	557														
FEB 18	14:30	0.1	0.336	12.0	DH48	3	510														
FEB 21	12:45	0.1	0.310 W	12.0	PS82	9															
FEB 25	08:15	0.1	53.1	12.0	DH59	61															
FEB 26	15:00	0.1	23.4	12.0	DH59	74	186														
MAR 12	10:20	0.1	25.4	12.0	DH59	143	189														
MAR 20	13:50	0.1	5.10	12.0	DH59	33	273														
MAR 20	13:51	1.0	5.10	12.0	PS82	11															
MAR 21	14:00		4.70	12.0	PS82	15															
MAR 22	14:00		3.82	12.0	PS82	14															
MAR 23	14:00		4.83	12.0	PS82	19															
MAR 24	14:00		4.12	12.0	PS82	11															
MAR 25	14:00		2.72	12.0	PS82	7															
MAR 26	14:00		2.46	12.0	PS82	7															
MAR 27	14:00		4.71	12.0	PS82	21															
MAR 28	08:15	5.0	22.5	12.0	PS82	245															
MAR 28	08:16	5.0	22.5	12.0	DH59	256	289														
MAR 28	17:00	5.0	21.0	12.0	DH59	542	207														
MAR 28	17:01	5.0	21.0	12.0	PS82	541															
MAR 28	20:00	5.0	26.1	12.0	PS82	342															
MAR 29	08:00	5.0	16.3	12.0	PS82	137															
MAR 29	08:30	5.0	16.3	12.0	DH59	100															
MAR 29	16:40	5.5	15.4	12.0	DH59	73															
MAR 29	16:41	5.5	15.4	12.0	PS82	115															
MAR 30	08:30		11.2	12.0	PS82	35															
MAR 31	08:30		8.76	12.0	PS82	23															
APR 01	08:30		24.3	12.0	PS82	133															
APR 01	15:30	4.0	16.4	12.0	PS82	83															
APR 01	15:31	4.0	16.4	12.0	DH59	57	103														
APR 01	16:00	4.0	16.4	12.0	PS82	60															
APR 02	08:20		9.43	12.0	PS82	78															
APR 02	08:21		9.43	12.0	DH59	78															
APR 03	13:30	5.0	6.11	12.0	PS82	31															
APR 03	13:31	5.0	6.11	12.0	DH59	20															
APR 03	13:32	5.0	6.11	12.0	PS82	21															
APR 04	13:30		7.40	12.0	PS82	29															
APR 05	13:30		32.1	12.0	PS82	1020															
APR 06	13:30		17.4	12.0	PS82	543															
APR 07	13:30		6.92	12.0	PS82	143															
APR 08	13:30		5.73	12.0	PS82	58															
APR 09	13:30		3.77	12.0	PS82	23															
APR 10	13:30		2.86	12.0	PS82	15															
APR 11	13:30		2.44	12.0	PS82	8															
APR 12	13:30		2.16	12.0	PS82	3															
APR 22	14:20	13.0	0.911	12.0	DH48	43	397														
APR 22	14:21	13.0	0.911	12.0	PS82	43															
APR 22	15:00	13.0	0.911	12.0	PS82	25															
APR 24	15:00		0.813	12.0	PS82	83															
APR 25	15:00		1.43	12.0	PS82	27															
APR 26	15:00		1.07	12.0	PS82	32															
APR 27	15:00		0.904	12.0	PS82	20															
APR 28	15:00		0.862	12.0	PS82	15															
APR 29	15:00		0.797	12.0	PS82	20															
APR 30	14:00	14.0	0.880	12.0	PS82	15															
APR 30	14:01	14.0	0.880	12.0	DH48	10	467														
APR 30	14:02	14.0	0.880	12.0	PS82	13															
MAY 01	14:00		0.595	12.0	PS82	11															
MAY 02	14:00		0.454	12.0	PS82	13															
MAY 03	14:00		0.407	12.0	PS82	13															
MAY 04	14:00		0.391	12.0	PS82	14															
MAY 05	14:00		0.417	12.0	PS82	12															
MAY 06	14:00		0.459	12.0	PS82	13															
MAY 07	14:00		0.459	12.0	PS82	15															
MAY 08	14:00		0.370	12.0	PS82	17															
MAY 09	14:00		0.351	12.0	PS82	14															
MAY 09	14:01	14.0	0.351	12.0	DH48	19	403														
MAY 09	14:02	14.0	0.351	12.0	PS82	13															
MAY 10	14:00		0.297	12.0	PS82	21															
MAY 11	14:00		0.256	12.0	PS82	20															
MAY 12	14:00		0.250	12.0	PS82	22															
MAY 13	14:00		0.250	12.0	PS82	24															
MAY 14	14:00		0.249	12.0	PS82	25															
MAY 15	14:00		0.241	12.0	PS82	21															
MAY 16	14:00		0.236	12.0	PS82	26															
MAY 17	14:00		0.234	12.0	PS82	23															
MAY 18	14:00		0.238	12.0	PS82	18															
MAY 19	14:00		0.234	12.0	PS82	16															
MAY 20	14:00		0.206	12.0	PS82	14															
MAY 21	14:00		0.260	12.0	PS82	16															
MAY 22	14:00		0.249	12.0	PS82	13															
MAY 23	14:00	15.0	0.182	12.0	DH48	3	484														
MAY 28	14:00	14.0	0.470	12.0	DH48	12															
JUN 13	13:45	12.0	0.193	12.0	DH48	11															
JUN 14	13:00	13.0	0.151	12.0	DH48	11															
JUL 08	09:50		5.81	12.0	DH59	602															
JUL 08	10:30		7.96	12.0	PS82	298															
JUL 08	10:31		7.96	12.0	DH59	717	380														
JUL 08	11:30		10.6	12.0	PS82	455															
JUL 08	11:31		10.6	12.0	DH59	492															
JUL 08	12:00		11.8	12.0	PS82	436															
JUL 08	12:01		11.8	12.0	DH59	441	343														
JUL 09	12:00		4.87	12.0	PS82	228															
JUL 10	12:00		2.02	12.0	PS82	137															
JUL 11	12:00		1.13	12.0	PS82	107															
JUL 12	12:00		0.904	12.0	PS82	89															
JUL 13	12:00		0.761	12.0	PS82	93															
JUL 14	12:00		0.540	12.0	PS82	62															
JUL 15	12:00		1.45	12.0	PS82	56															

NOTE SINGLE VERTICAL LOCATED AT 12.0 METRES FOR 1985

DISCHARGE SYMBOL(S) W - DAILY MEAN, ICE CONDITIONS

CONTINUED

THAMES RIVER AT INNERKIP - STATION NO. 02GD021 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUL 16	07:20	19.0	2.57	12.0	DH48	92	350														
JUL 16	07:50	19.0	2.49	12.0	PS82	71															
JUL 16	07:51	19.0	2.49	12.0	DH48	91															
JUL 16	08:20	19.0	2.44	12.0	PS82	84															
JUL 16	08:21	19.0	2.44	12.0	DH48	87															
JUL 16	08:50	19.0	2.35	12.0	PS82	58															
JUL 16	08:51	19.0	2.35	12.0	DH48	82															
JUL 16	09:20	19.0	2.30	12.0	PS82	56															
JUL 16	09:21	19.0	2.30	12.0	DH48	81															
JUL 16	09:50	19.0	2.24	12.0	PS82	83															
JUL 16	09:51	19.0	2.24	12.0	DH48	75															
JUL 16	10:20	19.0	2.20	12.0	PS82	57															
JUL 16	10:21	19.0	2.20	12.0	DH48	69															
JUL 16	12:00	19.0	2.13	12.0	PS82	82															
JUL 17	12:00		0.960	12.0	PS82	89															
JUL 18	12:00		0.652	12.0	PS82	112															
JUL 19	12:00		0.459	12.0	PS82	114															
JUL 20	12:00		0.561	12.0	PS82	79															
JUL 21	12:00		0.407	12.0	PS82	81															
JUL 22	12:00		0.354	12.0	PS82	91															
JUL 23	12:00		0.297	12.0	PS82	59															
JUL 24	12:00		0.252	12.0	PS82	39															
JUL 25	12:00		0.215	12.0	PS82	41															
JUL 26	12:00		0.196	12.0	PS82	71															
JUL 27	12:00		0.175	12.0	PS82	36															
JUL 28	12:00		0.155	12.0	PS82	26															
JUL 29	12:00		0.141	12.0	PS82	21															
JUL 30	12:00		0.118	12.0	PS82	22															
AUG 01	12:00		0.145	12.0	PS82	23															
AUG 02	12:00		0.118	12.0	PS82	24															
AUG 03	12:00		0.108	12.0	PS82	26															
AUG 04	12:00		0.106	12.0	PS82	23															
AUG 05	12:00		0.085	12.0	PS82	24															
AUG 06	12:00		0.085	12.0	PS82	24															
AUG 07	12:00		0.095	12.0	PS82	23															
AUG 08	12:00		20.0	12.0	PS82	307															
AUG 13	14:30	23.0	0.324	12.0	DH48	10	587														
AUG 14	12:00		0.260	12.0	PS82	62															
AUG 15	12:00		0.323	12.0	PS82	58															
AUG 16	12:00		0.540	12.0	PS82	38															
AUG 17	12:00		0.333	12.0	PS82	59															
AUG 18	12:00		0.252	12.0	PS82	68															
AUG 19	12:00		0.222	12.0	PS82	61															
AUG 20	12:00		0.340	12.0	PS82	67															
AUG 21	12:00		0.252	12.0	PS82	84															
AUG 22	12:00		0.211	12.0	PS82	74															
AUG 23	12:00		0.185	12.0	PS82	72															
AUG 24	12:00		0.402	12.0	PS82	63															
AUG 25	12:00		2.05	12.0	PS82	86															
AUG 26	07:00	18.0	7.82	12.0	DH59	280															
AUG 26	07:15	18.0	8.65	12.0	PS82	213															
AUG 26	07:16	18.0	8.65	12.0	DH58	272	411														
AUG 26	07:30	18.0	9.58	12.0	PS82	235															
AUG 26	07:31	18.0	9.58	12.0	DH59	278															
AUG 26	07:45	18.0	10.2	12.0	PS82	262															
AUG 26	07:46	18.0	10.2	12.0	DH59	302															
AUG 26	08:00	18.0	11.1	12.0	PS82	286															
AUG 26	08:01	18.0	11.1	12.0	DH58	316															
AUG 26	08:15	18.0	11.8	12.0	PS82	322															
AUG 26	08:16	18.0	11.8	12.0	DH58	310															
AUG 26	08:30	18.0	12.5	12.0	PS82	325															
AUG 26	08:31	18.0	12.5	12.0	DH59	305															
AUG 26	08:45	18.0	13.0	12.0	PS82	325															
AUG 26	08:46	18.0	13.0	12.0	DH59	273															
AUG 26	09:00	18.0	13.6	12.0	PS82	297															
AUG 26	09:01	18.0	13.6	12.0	DH59	242	329														
AUG 26	09:15	18.0	14.0	12.0	PS82	283															
AUG 26	09:16	18.0	14.0	12.0	DH59	226															
AUG 26	09:30	18.0	14.5	12.0	PS82	206															
AUG 26	09:31	18.0	14.5	12.0	DH59	202															
AUG 26	10:00	18.0	15.2	12.0	PS82	191															
AUG 26	10:01	18.0	15.2	12.0	DH58	102															
AUG 26	10:30	18.0	16.1	12.0	PS82	177															
AUG 26	10:31	18.0	16.1	12.0	DH58	209															
AUG 26	11:00	18.0	17.0	12.0	PS82	148															
AUG 26	11:01	18.0	17.0	12.0	DH59	146															
AUG 26	11:30	18.0	17.9	12.0	PS82	133															
AUG 26	11:31	18.0	17.9	12.0	DH58	120															
AUG 26	12:00	18.0	18.6	12.0	PS82	128															
AUG 26	12:01	18.0	18.6	12.0	DH58	117															
AUG 26	12:30	18.0	19.3	12.0	PS82	122															
AUG 26	12:31	18.0	19.3	12.0	DH58	107															
AUG 26	13:00	18.0	20.1	12.0	PS82	111															
AUG 26	13:01	18.0	20.1	12.0	DH59	96															
AUG 26	13:30	18.0	20.8	12.0	PS82	103															
AUG 26	13:31	18.0	20.8	12.0	DH59	91															
AUG 26	14:00	18.0	21.6	12.0	PS82	106															
AUG 26	14:01	18.0	21.6	12.0	DH58	93															
AUG 27	08:00		24.1	12.0	PS82	52															
AUG 28	08:00		3.47	12.0	PS82	46															
AUG 29	08:00		2.86	12.0	PS83	145															
AUG 30	08:00		2.03	12.0	PS82	147															
AUG 31	08:00		2.08	12.0	PS82	211															
SEP 01	08:00		1.73	12.0	PS82	209															
SEP 02	08:00		1.32	12.0	PS82	209															
SEP 03	08:00		1.11	12.0	PS82	209															
SEP 04	08:00		0.880	12.0	PS82	186															
SEP 05	08:00		0.750	12.0	PS82	211															
SEP 06	08:00		2.72	12.0	PS82	185															
SEP 07	08:00		1.83	12.0	PS82	177															
SEP 08	08:00		1.34	12.0	PS82	209															
SEP 09	08:00		2.53	12.0	PS82	217															
OCT 07	13:10	10.0	0.314	12.0	DH48	1	359														

NOTE : SINGLE VERTICAL LOCATED AT 12.0 METRES FOR 1985

CONTINUED

THAMES RIVER AT INNERKIP - STATION NO. 02GD021 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
NOV 05	08:40	8.0	21.1	12.0	DH59	85	384														
NOV 06	08:10	7.0	7.51	12.0	DH59	23															
DEC 09	13:30	3.0	1.89	12.0	DH48	0	473														

NOTE : SINGLE VERTICAL LOCATED AT 12.0 METRES FOR 1985

THAMES RIVER AT INNERKIP - STATION NO. 02GD021

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	-P---P--CCCC	DUAL	1 710 FEB 16	*	6 SEP 13		7 810 FEB 14	*	20 200 *	---	---	---
1985	CCCCCCCCCCCC	DUAL	1 020 APR 05		0 DEC 08	*	2 070 APR 05		10 300	28.3	28.3	---

DUAL - MANUAL AND AUTOMATIC SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WINISK RIVER BELOW ASHEWEIG RIVER TRIBUTARY - STATION NO. 04DC001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JUL 11	09:00	11.0	1330	1OLB	SURF	9	143														
SEP 30	13:56	6.0	890	1OLB	SURF	7	114														

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1985

WINISK RIVER BELOW ASHEWEIG RIVER TRIBUTARY - STATION NO. 04DC001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	-----P------	MANUAL	48 JUN 02	*	48 JUN 02		---	---	---	---	---	---
1979	--------P---	MANUAL	12 SEP 28		12 SEP 28		---	---	---	---	---	---
1980	----P-P-----	MANUAL	26 JUL 07		15 MAY 05		---	---	---	---	---	---
1984	----P---P---	MANUAL	7 MAY 31		5 SEP 02	*	---	---	---	---	---	---
1985	------P-P---	MANUAL	9 JUL 11		7 SEP 30		---	---	---	---	---	---

MANUAL - MANUAL SAMPLING

P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

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02FF002	AUSABLE RIVER NEAR SPRINGBANK	2
02FF007	BAYFIELD RIVER NEAR VARNA	6
02FF008	PARKHILL CREEK ABOVE PARKHILL RESERVIOR	40
02GA010	NITH RIVER NEAR CANNING	35
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